



THE FARLOW HERBARIUM of HARVARD UNIVERSITY  
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Copies of "The Jacob Whitman Bailey Diatom Collection at the Farlow Herbarium" have been forwarded to the following herbaria for use by diatom systematists and taxonomists: AWH, BHU, BM, HDSM, LD, OS, PC and PH (abbreviations follow Index Herbariorum). Additional copies are available from the Farlow Herbarium at cost although no copyright restriction is attached to this publication. Notice of the availability of this work is intended for Taxon. As work on the remaining portions of the Boston Society of Natural History Collection at the Farlow Herbarium progresses, I anticipate that some amplification and correction of these registers and indices will occur; notice of such changes will be forwarded to the above herbaria.

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THE JACOB WHITMAN BAILEY DIATOM COLLECTION  
AT THE FARLOW HERBARIUM

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## Introduction

The initial systematic investigations of American algae - fossil and recent, microscopic and macroscopic, freshwater and marine - were conducted between 1837 and 1857 by Jacob Whitman Bailey (1811-1857), a professor of chemistry, mineralogy and geology at the United States Military Academy at West Point, New York. During this period of expanding and intensifying geographical and natural history explorations of the North American continent and the oceans of the world, Bailey served as the American focus for the investigations of the algae, especially the microscopic infusoria. Among his microscopic algal collections are samples from 1) fossil infusorial deposits from all over the North American continent, especially the eastern seaboard, 2) the early soundings of the U.S. Coast Survey, 3) the Wilkes' Exploring Expedition (1838-1842) and the North Pacific Exploring Expedition (1853-1856), 4) the expeditions opening the American West of Fremont, Williamson, Newberry and others, 5) Berryman's soundings across the North Atlantic for laying the first transatlantic telegraph cable, and 6) his own extensive collections of algae from Nova Scotia to Florida. In addition, he communicated and exchanged samples extensively with American and European workers and thus procured a collection representing many regions of the globe. By the early 1840's Bailey had earned the accolade of "America's Ehrenberg", and by the mid-1850's he had amassed the finest and most extensive collection of algae in America. About two years before his death as a result of his increasingly failing health, he began to organize his collection for the use of those that would continue his work. Upon his death in 1857, Bailey bequeathed the collection, both organized and unorganized portions, plus the bulk

of his scientific books, pamphlets, notes and correspondence to the Boston Society of Natural History. In 1941, the Society donated the Bailey Collection to the Farlow Herbarium of Harvard University, where it currently resides.

Since 1976, I have worked at the Farlow Herbarium restoring those portions of the Bailey Collection which contained diatoms to a condition that would make them useful to contemporary taxonomists and historians of science. As the initial step in this restoration, I prepared a bibliography of Bailey's scientific contributions (Edgar, 1977). In promoting further this restoration this present work defines the present extent of the collection and indexes the taxa, geographical locations and persons associated with the diatom portions of it.

#### The Bailey Collection: 1857-1941

The general contents of the Bailey bequest to the Boston Society of Natural History are clear, but an itemized account of most parts of the collection has not been found and doubtfully was one made. Consequently, the extent of the diatom contents of the original collection can be approximated only.

The bequest circumscribes initially the collection (Proc. Boston Soc. nat. Hist. 6:179-181. 1857.):

#### Bequest of Prof. J.W. Bailey.

First. A microscopic collection, contained in cases resembling books, together with said cases, and the index volumes thereunto belonging; the whole bearing for titles, "Microscopic Collections."

Second. The whole of my collection of Algae, or Seaweeds, as contained in a set of portfolios, together with said portfolios.

Third. All my rough material for microscopic research, as contained in small boxes, paper, vials, and larger boxes, containing large masses marked with chalk, Richmond, Petersburg, Georgia, Florida, etc.

....

Upon receipt of these materials the Society appointed a committee consisting of Augustus A. Gould, John Bacon and Silas Durkee to report on the bequest. On the basis of their reports (Proc. Boston Soc. nat. Hist. 6:194-200. 1857.) samples of diatoms were contained in the materials described in the first, second and thirds parts of the bequest. Bacon's report on the "Microscopical Collection" indicated that it contained 24 octavo slide boxes (Table 1), and it generally described the contents of 19 of them and specified that 550 slides were contained in 21 boxes. A description of the three octavo boxes unaccounted for in Bacon's report was misplaced into Durkee's report on the algae; these boxes contained 69 slides but apparently no diatoms. The only disagreement between the original descriptions of these 24 boxes and the 24 octavo volumes found in the Farlow Herbarium in 1976 is that Bacon reported that two of the boxes contained "Test Objects and miscellaneous Organic Bodies," whereas I have found the collection to contain only a single box with this title. In that none of the 24 numbered volumes is missing I believe Bacon's report was in error. In addition to the formally boxed slides, Bacon indicated that the collection contained more than 800 "specimens mounted on glass slides" and 200 other specimens "mounted as opaque objects." Assuming these 800+ and 200 specimens represented an equal number of slides, the total number of slides contained in the original bequest was minimally 1,619.



TABLE 1. The 24 octavo slide boxes of the original Bailey  
"Microscopical Collection."

<u>Box No.*</u>	<u>Title*</u>	<u>Slide Serial No.**</u>
1	Test objects and organic bodies	1422-1476
2	Vegetable tissues - Recent	1224-1274
3	Vegetable tissues - fossil	1275-1306
4	Animal tissues - Vertebrata	1307-1339
5	Animal tissues - Articulata	1340-1376
6	Animal tissues - Mollusca & Radiata	1377-1421
7	American diatoms	967-1007
8***	Foreign diatoms	1008-1048
9	Atlantic soundings A to R'	567-608
10	Atlantic soundings R' to Q''	609-640
11	Atlantic soundings A'A' to Z'Z'	641-668
12	Atlantic soundings Berryman's 1-16	669-706
13	Atlantic soundings Berryman's 17-24	707-742
14	Soundings - Gulf of Mexico	859-883
15	Fossil diatoms - Virginia & Maryland, Bermuda	1128-1179
16	Fossil polycistines and diatoms, Barbadoes	1180-1223
17***	Soundings - Para River, etc., South America	884-925
18	Soundings - Arctic and Pacific Oceans	1567-1595
19	Fossil diatoms - Monterey, California	743-776
20	Fossil diatoms - Suisun Bay, Bodega Bay, San Luis, O.B., etc.	777-803
21	Diatoms in guano	1071-1102
22	Fossil polythalamia - American	1103-1127

23	Casts of polythalamia	1049-1069
24	Oregon, California, Puget Sound, etc.	811-858

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- \* Numbers and titles are taken directly from the original boxes.
- \*\* This range of serial numbers delimits all slide numbers contained in each box in 1976, when restoration of the collection was begun; it does not imply that all numbers within the range were represented by slides found at this time.
- \*\*\* In 1976, Boxes #8 and #17 were on loan to the Academy of Natural Sciences of Philadelphia and consequently not found initially with the rest of the collection. They have subsequently been returned to the collection.

In accounting for the second part of the bequest, Durkee reported that among the approximately 4,500 algae or seaweeds contained in 15 portfolios that "The Diatomaceae are in one volume and amount to 425." Finally, the geographical locations from which samples in the "boxes, paper, vials," etc. in the third part of the bequest were derived imply that they contained diatoms. In summary, the bequest included diatom materials in the partially defined microscopic slide collection, in a clearly segregated portion of the algal collection, and in the poorly defined "rough material for microscopic research."

The Society produced in 1860 a Catalogue of the Unmounted Materials [of the] Bailey Collection ..., presumably describing materials in the third part of the bequest. It itemized the collection notes of 705 bottles of materials containing primarily infusoria, but the proportion of the "rough material" that these represent is unknown.

In the Annual Report of 1877 the contents of the "Microscopical Collection" were given as 1,838 slides "presented in the bequest of Professor Bailey" (Proc. Boston Soc. nat. Hist. 19:188-189. 1877.). However, this report additionally indicated that

All the slides of the Bailey Collection, which contained several species of Foraminiferae or Diatomaceae, and which had been identified by Prof. Bailey himself, are entered in a separate book, entitled "The Catalogue of the Bailey Microscopical Slides." These slides are registered under the same numbers as in the current catalogue, but instead of only one line devoted to a general description and name of the locality, the space of half a page or more is devoted to the list of the species found upon that particular slide, together with the marks and measurements for finding each specimen. Prof. Bailey had begun this catalogue by registering 793 slides in this manner on foolscap paper, and this was continued by Miss Washburn. 1391 slides were entered in a similar manner by this lady upon



loose sheets of foolscap paper. The original notes of Prof. Bailey, contained upon slips of paper usually loosely wrapped around the slide, were faithfully transcribed, and the originals filed away for preservation. The whole, amounting to 372 sheets of foolscap, has been substantially bound, and is now available for reference.

This new Catalogue of the Bailey Microscopical Collection consisting of 372 foolscap pages is in the Farlow Herbarium and according to the above report assimilated completely and without change in serial number slides previously registered in the Catalogue of the Bailey Microscopical Slides, which I have not found. The report promotes the expectation of the new Catalogue containing 2,184 entries - 793 by Bailey and 1,391 by Miss Washburn. However, the Catalogue describes only slides numbered from 567 to 2,185. Although rarely were numbers in this series omitted or used more than once, e.g. 780 and 780-1/2, the series should encompass c. 1,619 slides. Interestingly, entries numbered 567 through 2,185 are contained within c. 372 foolscap pages, and the handwriting break in the Catalogue between Bailey and Washburn (which is additionally marked by a notation that the transcribers had changed) occurs between serial numbers 793 and 794. At present I have no explanation of why the series commences with number 567 and not number 1, but I have found neither slides nor references to slides in the collection bearing numbers in the range 1 to 566. I interpret the annual report to be misleading in the number of slides that Bailey registered; he registered only probably the 227 of them having numbers between 567 and 793. Also, based primarily on the fact that the Catalogue appears complete in having 372 pages, the range of serial numbers provides the best estimate of the extent of the collection in 1877 (independent of the 1,838 slides reported elsewhere), which I judge to be c. 1,619 slides.

In his historical sketch of the Society, Bouvé (1880) reported that the Bailey Collection consisted of 1,839 slides, a figure almost identical to that in the 1877 Annual Report.

The Society's Annual Report of 1892 contained a description of the "present condition" of the Bailey Collection: 24 boxes of "about 874 slides, in fairly good condition," about 568 slides in odd boxes and parcels plus an additional 27 slides labelled by Durkee (Proc. Boston Soc. nat. Hist. 25:438-439. 1892.). The parcels were described as "loose bundles, [containing] 160 native and 71 foreign diatom-slides." This description indicates there were 1,469 slides in the collection.

During the late 1850's and 1860's, the Proceedings of the Society alludes occasionally to the collection being less well organized than it might be and to its being heavily used and borrowed from, especially shortly after its receipt by the Society. H.L. Smith (1872) reported in The Lens concerning the Bailey Collection that

...the slides of Diatomaceae, and more especially the crude materials left by him [Bailey], have not been so fortunate in escaping the grasp of greedy collectors. Perhaps I am mistaken, but either the collection of Prof. Bailey, which he gave the Society, was much more meagre than that I had seen at his own rooms at West Point, or it has suffered since its deposit.

De Toni (1891) notes also, possibly based on Smith's earlier remarks, that the Society's Collection "Devrait contenir tous les types de J.W. Bailey, mais la plupart ont été volés."

A summary of the estimates of the extent of the Bailey Collection involving diatoms is presented in Table 2. No records other than those described above have been found useful in determining the extent of the



TABLE 2. A summary of estimates of the extent of parts of the J.W. Bailey Collection containing diatoms.

<u>Date</u>	<u>Microscopical Slide Collection</u>	<u>Exsiccati Collection</u>	<u>Collection of Unmounted Materials</u>	<u>Reference*</u>
1857	1,619+ slides	425 specimens	unknown	PBSNH 6:194-200
1860			705 samples	<u>Catalogue of the</u> <u>Unmounted Materials</u> <u>[of the] Bailey</u> <u>Collection ...</u>
1877	1,838 slides			PBSNH 19:188
1877	c. 1,619 slides			PBSNH 19:188-189
1880	1,839 slides			Bouvé, 1880, p. 239
1892	1,469 slides			PBSNH 25:438-441
1976	1,216 slides	303 specimens	48 vials 64 slides	

\* PBSNH = Proceedings of the Boston Society of Natural History

Collection between 1892 and 1941, when the Society relinquished care of it.

The Bailey Collection: 1941-present

The use of the Bailey Collection since its receipt by the Farlow Herbarium in 1941 has been apparently meagre. I have found only that the Academy of Natural Sciences of Philadelphia had borrowed a small portion of it, that N. Ingrahm Hendey had used it in 1953 and designated several types of Bailey's species' names of diatoms, and that Robert Ross had perused it in 1962 and left notes concerning its reorganization.

The present Bailey Collection primarily with respect to its diatom materials is composed of three major parts, each deriving its organization from the 1857 bequest:

- A) A MICROSCOPIC SLIDE COLLECTION including related paleographs and a catalogue of the slides and their contents.

The 1,216 slides contained in this collection are the remnants of the "Microscopical Collection" described in the 1857 bequest. With a few exceptions, each slide bears a number between 567 and 2,185 scratched into the glass. This collection currently includes slides that I found in 1976 in 1) 24 octavo cardboard slide boxes, each possessing a label on its inside cover indicating "Boston Society of Natural History/Bequest of/Prof. J.W. Bailey/April, 1857" (Table 1), 2) two century wooden slide boxes each containing c. 100 slides, 3) two wooden folders bearing 30 large and odd-sized glass slides, 4) an unnumbered small green box with J.W. Bailey's name on it found at the Academy of Natural Sciences of Philadelphia and containing slides numbered from 1527 to 1537, and 5) an octavo slide box from the Boston Society of Natural History general slide (non-Bailey) collection containing slides numbered from 1538 to 1542 and from 1752 to 1796. All these materials were found in

the Farlow Herbarium unless I have indicated otherwise. Slides placed in this collection have been verified as being Bailey's based on their having 1) serial numbers between 567 and 2,185, 2) descriptions consistent with those of similarly numbered entries in the Catalogue of the Bailey Microscopical Collection, 3) notations in Bailey's handwriting scratched on the slide, 4) notations in Bailey's handwriting on papers associated directly with them, and 5) a system of standard reference lines, orientation arrows or numbers characteristic of Bailey's "Universal Indicator" method of locating individual specimens (Bailey, 1855). Slides falling harmoniously into a series ordered on the basis of the preceding criteria were also included. I have marked each slide appropriate to this collection by placing on it a round, 0.8 cm diameter, white label bearing the slide serial number. The slides have been placed in numerical order in 18 wooden slide boxes, which were remilled to accomodate the varying dimensions of the slides; grossly oversized slides have been housed separately in Box #19.

A paleograph collection has been established incorporating all papers bearing notes, numbers or any writing whatsoever that were found associated with the slides. The paleographs have been referenced under the serial number of the slide with which they were found associated in 1976 unless this association was clearly in error.

The serial list in this work describing the slide collection is arranged in groups of slides, partially of Bailey's design as reflected in the Catalogue and partially my own, and it includes all slide serial numbers between 567 and 2,185 eventhough some groups do not contain diatom material. This list records all information available on the slide and in the Catalogue and paleographs, except taxa determinations which have been separately indexed. The current existence at the Farlow



Herbarium of slides, Catalogue entries and paleographs for each number is noted also in the list. Clarifying information has been added to the description of some slides; information which is bracketed is speculative or specifically not derived from the source materials described above.

B) A DIATOM EXSICCATI COLLECTION

The algal herbarium which the Boston Society of Natural History donated to the Farlow Herbarium in 1941 contained 303 sheets of diatom exsiccati that I have determined to have come from Bailey and to represent materials described in the second part of the 1857 bequest. Most of these sheets bear specific notations in Bailey's handwriting. I have attributed other sheets to his bequest because they represent specimens from collectors, such as Brébisson, Lenormand, Dickie and Ralfs, with whom Bailey exchanged materials extensively and because I have found no evidence that they entered the Society's collection by a means other than Bailey. The 303 sheets from Bailey's herbarium were part of a slightly larger collection of diatom exsiccati donated by the Society; upon receipt of these materials by the Farlow Herbarium, all sheets in the collection were pinned or glued to larger herbarium sheets and thus their arrangement was largely fixed. I have numbered all the exsiccati in this collection and prefixed each number with an "E", e.g. E131; each number has been placed on a round, 0.8 cm diameter, white label on the sheet. The numerical series describing the exsiccati approximates an alphabetical arrangement of the taxa. Numbers not listed in this series in the index correspond to non-Bailey diatom exsiccati. The authors of taxa names presented in the list are those given on the original exsiccati labels.

C) A COLLECTION OF UNMOUNTED MATERIALS comprising bottles of original material and slides derived from them.

This portion of the collection contains specimens derived originally from the unmounted non-exsiccati materials described in the third part of the 1857 bequest. A Catalogue of the Unmounted Materials [of the] Bailey Collection in the Boston Society of Natural History, which was produced in 1860, has been the sole measure of materials appropriate to this part of the Collection. This Catalogue was initially the property of the Society, but by 1938 and by unknown means it had passed into the possession of Clarence A. Cheever, an amateur Massachusetts diatomist. It lists 705 samples, primarily infusoria, representing an unknown proportion of the original amount of material, but also contains notes by Cheever indicating that many of the samples were either missing or contained so little material as to be useless. I have found in the Farlow Herbarium a loosely grouped collection of 100 vials designated collectively as "Bailey Collection ex B.S.N.H." These vials were apparently the gift of Cheever in 1941 or 1943 along with the 1860 Catalogue, but these vials have plastic screw caps indicating they are not the original containers of Bailey eventhough the material inside may be his. However, because none of these vials bears any identifying notes or numbers and because I have been unable to determine how Cheever secured them, I have not included them in this accounting of the collection.

Also, in 1976, I found loose among miscellaneous papers pertaining to the diatom collections in the Farlow Herbarium an undated unsigned three-page note entitled "Bailey Collection. Unmounted Materials." describing a collection of boxes, dry mounts, etc. contained in a small cabinet; the materials were in accord with entries in the 1860 Catalogue. Because the note makes reference to the cabinet being associated with several volumes of Bailey's letters and notes, which are still in the possession of the Boston Society of Natural History (now Boston's Museum of Science),



the note describes the materials probably while they were at the Society and not at the Farlow Herbarium. The materials described in the note have not been found in the Society's archives, the Farlow Herbarium or the Peabody Museum (as suggested in an appended notation on the note).

A small wooden box containing 46 vials bearing numbers and labels corresponding to entries in the 1860 Catalogue was found in the Farlow Herbarium in 1976. It contained an unsigned note indicating

These diatoms were collected by [Louis François de] Pourtales and sent to Bailey (J.W.) to name. They were found in the Agassiz Museum [in] October, 1912 and given to [the] Cryptogamic Herbarium [by Samuel Henshaw]. The numbers probably correspond to lists of J.W. Bailey in the Boston Soc. Nat. Hist.

In the 1940's David Linder produced a list of the contents of the vials based on data in the 1860 Catalogue. I have made slides from the contents of each of these vials and given each the number of the vial prefixed by a "U", e.g. U231, on a round, 0.8 cm diameter, white label.

Lastly, the general slide collection of the Boston Society of Natural History contained 16 slides specifically labelled indicating that they had been prepared from particular vials of unmounted material in the Bailey Collection. Each of these slides has been given the number of the vial from which it was prepared, again, prefixed with a "U" on the characteristic white label. All 64 slides prepared from unmounted material have been placed in Box #20.

Many slides were made from Bailey's unmounted material while it was possessed by the Society, especially before 1900, and undoubtedly these were dispersed and now are in different slide collections at the Farlow and other herbaria. Identification of these has not been undertaken now, but when it is done, it will be difficult and largely based on

such criteria as ones of "geographical coincidence." I have limited the inclusion of materials in this part of the collection, as in the whole collection, to those I am confident were included in the 1857 bequest.

I have prepared several indices to the Bailey Collection. The taxa index includes all generic and species names of diatoms 1) recorded on the slides, in the Catalogue of the Bailey Microscopical Collection and in the paleographs, 2) noted on sheets of exsiccati, not just the original names applied by the collectors, and 3) listed in the Catalogue of the Unmounted Materials [of the] Bailey Collection for which there are extant materials in the collection at the Farlow Herbarium. The geographical and person's indices cover also all appropriate names used in the three major parts of the collection, plus a few I have added to facilitate access to selected materials.

REGISTER OF  
MICROSCOPIC SLIDE COLLECTION

Each serial number (567-2,185) thought to be in the original collection is listed here preceded by an indication of the current existence in the Farlow Herbarium of corresponding slides (S), paleographs (P) or Catalogue entries (C). Each is followed with an alternative slide designation, when Bailey presented one, and finally by a description of the sample based on the slide, paleographs and Catalogue. Slide codes marked with an asterisk (S\*) indicate oversized slides housed in Box #19. An outline of the organization of this part of the collection is presented in Table 3.



TABLE 3. The organization of the Microscopic Slide Collection.

<u>Title</u>	<u>Serial Slide Numbers</u>	<u>Extant Number of Slides</u>	<u>Page</u>
Atlantic Ocean and Gulf of Mexico Soundings	567-647	80	19
Bering Sea and Adjacent Seas	648-668	25	23
Berryman's Soundings between America and Ireland in 1856	669-742	77	25
California, Oregon, and Washington Territories	743-858	117	30
Gulf of Mexico	859-883	25	35
Para River of South America	884-925	42	37
North Atlantic Ocean and Canadian Arctic Ocean	926-946	21	40
Bering and Chukchi Seas	947-966	20	42
American Diatoms	967-1007	41	43
Foreign Diatoms	1008-1048	39	45
Casts of Polythalamia and Guano	1049-1102	54	47
Fossil Polythalamia from North America	1103-1127	25	50
Fossil Diatoms from Virginia, Maryland and Bermuda	1128-1179	52	51
Fossil Polycistines and Diatoms from Barbadoes	1180-1223	44	53
Vegetable Tissues - Recent	1224-1275	40	55
Vegetable Tissues - Fossil	1276-1306	31	57
Animal Tissues - Vertebrata	1307-1339	34	59
Animal Tissues - Articulata	1340-1376	37	61
Animal Tissues - Mollusca & Radiata	1377-1421	34	63
Miscellaneous	1422-1464	42	65

Diatoms from William Gregory	1465-1476	12	67
Miscellaneous American Diatoms	1477-1537	12	68
Miscellaneous	1538-1566	5	70
Oceanic Soundings	1567-1587	0	71
Perry's Japan Expedition	1588-1595	0	73
Various Soundings	1596-1622	0	74
Fossil Infusoria	1623-1693	19	76
Fremont's Infusoria	1695-1702	0	79
Marine Diatoms	1703-1751	0	80
Chalk Series	1752-1764	10	83
Miscellaneous Animals and Minerals	1765-1780	10	84
Smithsonian Contribution's Series	1781-1796	16	85
Hudson River Series	1797-1812	0	86
Desmidiaceae and other Chlorophytes	1813-1858	3	87
Southeastern United States Series	1859-1957	89	89
Northeastern and Northcentral United States Series	1958-2050	91	93
Bourgogne Series	2051-2059	9	97
Foreign Diatoms	2060-2185	60	98

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TOTAL 1,216

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 ATLANTIC OCEAN AND GULF OF MEXICO SOUNDINGS
 

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S	C	567	A	Off Key Biscayne, Florida; 147 fathoms
S	P	C	568	B Off Key Biscayne, Florida; 147 fathoms
		C	569	C Off Key Biscayne, Florida; 147 fathoms
S	C	570	D	Off Key Biscayne, Florida; 147 fathoms
S	C	571	E	Off Key Biscayne, Florida; 147 fathoms; small slide
S	C	572	F	Off Key Biscayne, Florida; 147 fathoms
S	C	573	G	Off Key Biscayne, Florida; 147 fathoms
S	C	574	H	Off Key Biscayne, Florida; 147 fathoms
S	C	575	I	Off Key Biscayne, Florida; 147 fathoms
S	C	576	J	Off Key Biscayne, Florida; 147 fathoms
S	C	577	K	Off Key Biscayne, Florida; 147 fathoms
S	P	C	578	L Off Key Biscayne, Florida; 147 fathoms
S*	C	579	M	Off Key Biscayne, Florida; [This slide bears bears a paper label prepared by N. Ingrahm Hendey in 1953 reading "Detached coverglass of Bailey Slide No. 579 remounted on a fresh slide." The original slide is in oversized envelope no. 579 in Box # 19.]
S	C	580	N	Off Key Biscayne, Florida; depth not marked
S	C	581	O	Off Key Biscayne, Florida; depth not marked
S	C	582	P	Off Key Biscayne, Florida; depth not marked
S	C	583	Q	Off Key Biscayne, Florida; depth not marked
S	C	584	R	Off Key Biscayne, Florida; 147 fathoms
S	C	585	S	Off Key Biscayne, Florida; 147 fathoms
S	C	586	T	Off Key Biscayne, Florida; 147 fathoms; some determinations by Charles Stodder
S	C	587	U	Off Key Biscayne, Florida; depth not marked
S	C	588	V	Off Key Biscayne, Florida; 205 fathoms
S	C	589	W	Off Key Biscayne, Florida; 205 fathoms



S	C	590	X	Off Key Biscayne, Florida; 147 fathoms
S	C	591	Y	Off Key Biscayne, Florida; 205 fathoms
S	C	592	Z	Off Key Biscayne, Florida; 205 fathoms
S	C	593	A'	Off Key Biscayne, Florida; 205 fathoms
S	C	594	B'	Off Key Biscayne, Florida; 205 fathoms
S	C	595	C'	Off Key Biscayne, Florida; 205 fathoms
S	C	596	D'	Off Key Biscayne, Florida; 65 fathoms
S	C	597	E'	Off Key Biscayne, Florida; 65 fathoms
S	C	598	F'	Off Key Biscayne, Florida; 65 fathoms
S	C	599	G'	Off Key Biscayne, Florida; 147 fathoms
S	C	600	H'	Off Key Biscayne, Florida; depth not marked
S	C	601	I'	Off Key Biscayne, Florida; depth not marked
S	C	602	J'	Off Key Biscayne, Florida; depth not marked
S	C	603	K'	Off Key Biscayne, Florida; depth not marked; turned brown by ammonia
S	C	604	L'	Off Key Biscayne, Florida; 65 fathoms
S	E	605	M'	Off Key Biscayne, Florida; 65 fathoms
S	C	606	N'	Off Key Biscayne, Florida; 65 fathoms
S	C	607	O'	Off Key Biscayne, Florida; 65 fathoms
S	C	608	P'	Off Key Biscayne, Florida; 65 fathoms
S	C	609	Q'	Off Key Biscayne, Florida; 147 fathoms
S	C	610	R'	Off Key Biscayne, Florida; 147 fathoms?
S	C	611	S'	Off Key Biscayne, Florida; depth not marked
S	C	612	T'	Off Key Biscayne, Florida; depth not marked; some determinations by Charles Stodder
S	C	613	U'	Off Key Biscayne, Florida; depth not marked
S	C	614	V'	Off Key Biscayne, Florida; depth not marked
S	C	615	W'	[Gulf Stream?], Position 17; 300 fathoms
S	P C	616	X'	[Gulf Stream?], Position 17; 300 fathoms

S	C	617	Y'	[Gulf Stream?], Position 17; 300 fathoms
S	C	618	Z'	[Gulf Stream?], Position 17; 300 fathoms
S	C	619	A''	Gulf Stream, Section VIII, No. 14; 400 fathoms; Lat. $33^{\circ} 32'$ N, Long. $76^{\circ} 10' 15''$ W; Lt. B.F. Sands
S	C	620	B''	Gulf Stream, Section VIII, No. 14; 400 fathoms
S	C	621	C''	Gulf Stream, Section VIII, No. 14; 400 fathoms
S	C	622	D''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms; light portions in natural state; [See #625-636]
S	C	623	E''	Gulf Stream, Section VIII, No. 3; 105 fathoms; Lat. $24^{\circ} 33'$ N, Long. $80^{\circ} 43'$ W
S	C	624	F''	Gulf Stream, Section VIII, No. 11; 510 fathoms; light portions in natural state
S	C	625	G''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms; light portions in natural state; Lat. $26^{\circ} 10'$ N, Long. $84^{\circ} 41'$ W
S	C	626	H''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms; Lat. $26^{\circ} 20'$ N, Long. $84^{\circ} 41'$ W; acted on by cold chloro-hydric acid and then by my chlorate process
S	C	627	I''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms
S	C	628	J''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms
S	P C	629	K''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms
S	C	630	L''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms
S	C	631	M''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms
S	C	632	N''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms
S	C	633	O''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms; last fine portions
S	C	634	P''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms
S	C	635	Q''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms; last light portions
S	C	636	R''	Gulf of Mexico, Section VIII, No. 8; 138 fathoms; last light portions
S	C	637	S''	Gulf Stream; 715 fathoms; Lat. $39^{\circ} 55'$ N, Long. $70^{\circ} 06'$ W
S	C	638	T''	Gulf Stream; 715 fathoms; Lat. $39^{\circ} 55'$ N, Long. $70^{\circ} 06'$ W

S	C	639	U''	Gulf Stream; 715 fathoms; Lat. 39° 55' N, Long. 70° 06' W
	C	640[A]	V''	Gulf Stream; 715 fathoms; Lat. 39° 55' N, Long. 70° 06' W
S	C	640[B]	W''	Gulf Stream; 715 fathoms; Lat. 39° 55' N, Long. 70° 06' W
S	C	641	A'A'	[North Atlantic Ocean?]; 1200 fathoms
S	C	642	B'B'	North Atlantic Ocean; 2000 fathoms; Lat. 54° 17' N, Long. 22° 33' W
S	C	643	C'C'	[North Atlantic Ocean?]; 1200 fathoms
S	C	644	D'D'	[North Atlantic Ocean?]; 1200 fathoms; N.B. Some fresh water forms on this slide were accidentally introduced with the balsam.
S	C	645	E'E'	North Atlantic Ocean; 2000 fathoms; Lat. 54° 17' N, Long. 22° 33' W
S	C	646	F'F'	North Atlantic Ocean; 2000 fathoms; Lat. 54° 17' N, Long. 22° 33' W
S	C	647	G'G'	North Atlantic Ocean; 1360 fathoms; Lat. 44° 41' N, Long. 24° 35' W; N.B. Some frustules of <u>Achnanthes</u> on this slide got in with the balsam.



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 BERING SEA AND ADJACENT SEAS
 

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S	C	648	H'H'	[Bering Sea =] Sea of Kamtschatka; 2700 fathoms; Lat. 56° 46' N, Long. 168° 18' E; January 24, 1856
S	C	649	I'I'	[Bering Sea =] Sea of Kamtschatka; 2700 fathoms; Lat. 56° 46' N, Long. 168° 18' E; January 24, 1856
S	C	650	J'J'	[Bering Sea =] Sea of Kamtschatka; 2700 fathoms; Lat. 56° 46' N, Long. 168° 18' E; January 24, 1856
S	C	651	K'K'	[Bering Sea =] Sea of Kamtschatka; 2700 fathoms; Lat. 56° 46' N, Long. 168° 18' E; January 24, 1856
S	C	652	L'L'	[Bering Sea =] Sea of Kamtschatka; 2700 fathoms- Lat. 56° 46' N, Long. 168° 18' E; January 24, 1856; light portions cleaned
S	C	653	M'M'	[Bering Sea =] Sea of Kamtschatka; 2700 fathoms; Lat. 56° 46' N, Long. 168° 18' E; January 24, 1856; in natural state with grease of the lead
S	C	654	N'N'	[Bering Sea =] Sea of Kamtschatka; 1700 fathoms; Lat. 60° 15' N, Long. 170° 53' E; July 26, 1855; uncleaned
S	C	655	O'O'	[Bering Sea =] Sea of Kamtschatka; 1700 fathoms; Lat. 60° 15' N, Long. 170° 53' E; July 26, 1855; uncleaned
S	C	656	P'P'	[Bering Sea =] Sea of Kamtschatka; 1700 fathoms; Lat. 60° 15' N, Long. 170° 53' E; July 26, 1855
S	C	657[A]	Q'Q'	[Bering Sea =] Sea of Kamtschatka; 1700 fathoms; Lat. 60° 15' N, Long. 170° 53' E; July 26, 1855; light portions
S	C	657[B]	Q'Q'a	[Bering Sea =] Sea of Kamtschatka; 1700 fathoms; Lat. 60° 15' N, Long. 170° 53' E; July 26, 1855; small slide
S	C	658[A]	R'R'	Gulf Stream, Atlantic Ocean; 2000 fathoms; Lat. 54° 17' N, Long. 22° 33' W; large slide
S	C	658[B]	R'R'	[Bering Sea =] Sea of Kamtschatka; 900 fathoms; Lat. 60° 30' N, Long. 175° E; July 28, 1855; temp. (deep sea) 32° Saxton; small slide
S	C	659	S'S'	[Bering Sea =] Sea of Kamtschatka; 900 fathoms; Lat. 60° 30' N, Long. 175° E; July 28, 1855; temp (deep sea) 32° Saxton; heavy portion

S	C	660	T'T'	[Bering Sea =] Sea of Kamtschatka; 900 fathoms; Lat. $60^{\circ} 30'$ N, Long. $175^{\circ}$ E; July 28, 1855; temp. (deep sea) $32^{\circ}$ Saxton
S	C	661	U'U'	[Bering Sea =] Sea of Kamtschatka; 900 fathoms; Lat. $60^{\circ} 30'$ N, Long. $175^{\circ}$ E; July 28, 1855; temp. (deep sea) $32^{\circ}$ Saxton
S	C	662	V'V'	[Bering Sea =] Sea of Kamtschatka; 900 fathoms; Lat. $60^{\circ} 30'$ N, Long. $175^{\circ}$ E; July 28, 1855; temp. (deep sea) $32^{\circ}$ Saxton; guide lines on wrong side
S	C	663	W'W'	[Bering Sea =] Sea of Kamtschatka; 900 fathoms; Lat. $60^{\circ} 30'$ N, Long. $175^{\circ}$ E; July 28, 1855; temp. (deep sea) $32^{\circ}$ Saxton; recorded by positions on edge of slide; N.B. The guide lines being ruled on the wrong side have not been used, but the record was made by means of the edges of the glass, the arrow being to the left and underneath.
S	C	664	X'X'	[Bering Sea =] Sea of Kamtschatka; 900 fathoms; Lat. $60^{\circ} 30'$ N, Long. $175^{\circ}$ E; July 28, 1855; temp. (deep sea) $32^{\circ}$ Saxton; not cleaned
S	C	665	Y'Y'	[Bering Sea =] Sea of Kamtschatka; 900 fathoms; Lat. $60^{\circ} 30'$ N, Long. $175^{\circ}$ E; July 28, 1855; temp. (deep sea) $32^{\circ}$ Saxton
S	C	666[A]	Z'Z'	[Okhotsk Sea =] Ochotsk Sea; Lat. $57^{\circ} 28'$ N, Long. $151^{\circ} 20'$ E; mud from head of a whale captured in Ochotsk Sea; [larger slide]
S	C	666[B]	Z'Z'	[Okhotsk Sea =] Ochotsk Sea; Lat. $57^{\circ} 28'$ N, Long. $151^{\circ} 20'$ E; mud from head of whale killed in Ochotsk Sea; [smaller slide]
S	C	666-1/2	W'a	[Gulf Stream?], Section VIII; 300 fathoms; boiled in $\text{HONO}_5$ ; [see Serial No. 615]
S	C	667	W'b	[Gulf Stream?], Section VIII; 300 fathoms; boiled in $\text{NO}_5$ x $\text{HCl}$ ; [see Serial No. 615]
S	C	668	W'c	[Gulf Stream?], Section VIII; 300 fathoms; acted on by $\text{NO}_5$ x $\text{HCl}$ , then ignited, then heated with X KO; [see Serial No. 615]



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 BERRYMAN'S SOUNDINGS BETWEEN AMERICA AND IRELAND IN 1856
 

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S	C	669	1	Lat. 47° 50' N, Long. 52° 00' W; 96 fathoms; light parts
S	C	670	2	Lat. 48° 00' N, Long. 51° 41' W; 150 fathoms; light parts
S	C	671	3	Lat. 48° 13' N, Long. 51° 20' W; 98 fathoms
S	C	672	4	Lat. 40° 27' N, Long. 50° 58' W; 85 fathoms; light parts
S	C	673	5	Lat. 48° 40' N, Long. 50° 36' W; 120 fathoms
S	C	674[A]	6	Lat. 48° 51' N, Long. 50° 10' W; 1100 fathoms; treated with HCl acid, light part
S	C	674[B]	6	Lat. 48° 51' N, Long. 50° 10' W; 1100 fathoms; light parts
S	C	674[C]	6	Lat. 48° 51' N, Long. 50° 10' W; 1100 fathoms; natural state
S	C	675[A]	7	Lat. 50° 05' N, Long. 40° 26' W; 1500 fathoms; light part
S	C	675[B]	7	Lat. 50° 05' N, Long. 40° 26' W; 1500 fathoms; natural state
S	C	676	8a	Lat. 50° 20' N, Long. 38° 30' W; 1564 fathoms; natural state
S	C	677	8b	Lat. 50° 20' N, Long. 38° 30' W; 1564 fathoms; light parts
S	C	678[A]	8c	Lat. 50° 20' N, Long. 38° 30' W; 1564 fathoms; with acid, light part
	C	678[B]	8d	Lat. 50° 20' N, Long. 38° 30' W; 1564 fathoms; with acid, light part
S	C	679	8e	Lat. 50° 20' N, Long. 38° 30' W; 1564 fathoms; heated with HCl acid
S	C	680	9a	Lat. 50° 44' N, Long. 37° 15' W; 1600 fathoms; natural state
S	C	681	9b	Lat. 50° 44' N, Long. 37° 15' W; 1600 fathoms; with acid
S	C	682	9c	Lat. 50° 44' N, Long. 37° 15' W; 1600 fathoms; with acid, lightest part

S	C	683	9d	Lat. 50° 44' N, Long. 37° 15' W; 1600 fathoms; with acid, light part
S	C	684	9e	Lat. 50° 44' N, Long. 37° 15' W; 1600 fathoms; with acid, heaviest part
S	C	685	9f	Lat. 50° 44' N, Long. 37° 15' W; 1600 fathoms; light parts, natural state
S	C	686	10a	Lat. 51° 06' N, Long. 35° 50' W; 1050 fathoms; natural state; [Lat. 50°?]
S	C	687	10b	Lat. 51° 06' N, Long. 35° 50' W; 1050 fathoms; light part; [Lat. 50°?]
S	C	688	10c	Lat. 51° 06' N, Long. 35° 50" W; 1050 fathoms; treated with HCl acid; [Lat. 50°?]
S	C	689	11a	Lat. 51° 15' N, Long. 34° 08' W; 1680 fathoms; natural state
S	C	690	11b	Lat. 51° 15' N, Long. 34° 08' W; 1680 fathoms; light parts
S	C	691	11c	Lat. 51° 15' N, Long. 34° 08' W; 1680 fathoms; treated with HCl acid
S	C	692	12a	Lat. 50° 38' N, Long. 32° 20' W; 2070 fathoms; natural state
S	C	693	12b	Lat. 50° 38' N, Long. 32° 20' W; 2070 fathoms; natural state
S	C	694	13a	Lat. 52° 24' N, Long. 29° 16' W; 2000 fathoms; natural state
S	C	695	13b	Lat. 52° 24' N, Long. 29° 16' W; 2000 fathoms; treated with HCl acid
S	C	696	14a	Lat. 52° 26' N, Long. 27° 18' W; 1830 fathoms; natural state
S	C	697	14b	Lat. 52° 26' N, Long. 27° 18' W; 1830 fathoms; light parts
S	C	698	14c	Lat. 52° 26' N, Long. 27° 18' W; 1830 fathoms; treated with HCl acid
S	C	699	15a	Lat. 52° 26' N, Long. 26° 20' W; 1930 fathoms; natural state
S	C	700	15b	Lat. 52° 26' N, Long. 26° 20' W; 1930 fathoms; light parts

S	C	701	15c	Lat. 52° 26' N, Long. 26° 20' W; 1930 fathoms; treated with HCl acid, light part	
S	C	702	15d	Lat. 52° 26' N, Long. 26° 20' W; 1930 fathoms; treated with HCl acid, heavy parts	
S	C	703	16a	Lat. 52° 02' N, Long. 24° 51' W; 1813 fathoms; natural state	
S	C	704	16b	Lat. 52° 02' N, Long. 24° 51' W; 1813 fathoms; boiled with HCl acid, light part	
S	C	705	16c	Lat. 52° 02' N, Long. 24° 51' W; 1813 fathoms; boiled with HCl acid; heavy part	
S	C	706	16d	Lat. 52° 02' N, Long. 24° 51' W; 1813 fathoms; light parts	
S	C	707	17a	Lat. 51° 41' N, Long. 22° 23' W; 1650 fathoms; natural state	
S	C	708	17b	Lat. 51° 41' N, Long. 22° 23' W; 1650 fathoms; light part	
S	P	C	709	17c	Lat. 51° 41' N, Long. 22° 23' W; 1650 fathoms; boiled with HCl acid
S	C	710	18a	Lat. 51° 45' N, Long. 21° 19' W; 1590 fathoms; natural state	
S	C	711	18b	Lat. 51° 45' N, Long. 21° 19' W; 1590 fathoms; light part	
S	P	C	712	18c	Lat. 51° 45' N, Long. 21° 19' W; 1590 fathoms; with acid, lightest part; [Lat. 41' ?]
S	P	C	713	18d	Lat. 51° 45' N, Long. 21° 19' W; 1590 fathoms; with acid, heavy part
S	C	714	19a	Lat. 51° 50' N, Long. 20° 12' W; 1545 fathoms; natural state	
S	C	715	19b	Lat. 51° 50' N, Long. 20° 12' W; 1545 fathoms; light parts	
S	P	C	716	19c	Lat. 51° 50' N, Long. 20° 12' W; 1545 fathoms; boiled with HCl acid, light part
S	P	C	717	19d	Lat. 51° 50' N, Long. 20° 12' W; 1545 fathoms; with acid, heavy part
S	C	718	20a	Lat. 52° 01' N, Long. 17° 06' W; 1905 fathoms; natural state	



S	C	719	20b	Lat. 52° 01' N, Long. 17° 06' W; 1905 fathoms; light part
S	P	C	720	20c Lat. 52° 01' N, Long. 17° 06' W; 1905 fathoms; with acid, light part
S	C	721	20d	Lat. 52° 01' N, Long. 17° 06' W; 1905 fathoms; natural state
S	P	C	722	20d' Lat. 52° 01' N, Long. 17° 06' W; 1905 fathoms; with acid, heaviest part
S	C	723	20e	Lat. 52° 01' N, Long. 17° 06' W; 1905 fathoms; boiled with HCl acid
S	C	724	20e'	Lat. 52° 01' N, Long. 17° 06' W; 1905 fathoms; with acid, lightest part
S	C	725	21a	Lat. 52° 05' N, Long. 16° 05' W; 1518 fathoms; natural state
S	P	C	726	21b Lat. 52° 05' N, Long. 16° 05' W; 1518 fathoms; with acid, heaviest part
S	C	727	21c	Lat. 52° 05' N, Long. 16° 05' W; 1518 fathoms; light parts, natural state
S	P	C	728	21d Lat. 52° 05' N, Long. 16° 05' W; 1518 fathoms; with acid, heavy part
S	C	729	21e	Lat. 52° 05' N, Long. 16° 05' W; 1518 fathoms; with acid, light part
S	C	730	21f	Lat. 52° 05' N, Long. 16° 05' W; 1518 fathoms; with acid, lightest part
S	C	731	22a	Lat. 52° 03' N, Long. 15° 02' W; 410 fathoms; natural state
S	C	732	22b	Lat. 52° 03' N, Long. 15° 02' W; 410 fathoms; light part, natural state
S	C	733	22c	Lat. 52° 03' N, Long. 15° 02' W; 410 fathoms; with acid, heaviest part
S	C	734	22d	Lat. 52° 03' N, Long. 15° 02' W; 410 fathoms; with acid, light part
S	C	735	23a	Lat. 51° 52' N, Long. 13° 16' W; 410 fathoms; natural state
S	C	736	23b	Lat. 51° 52' N, Long. 13° 16' W; 410 fathoms; light part

S	C	737	23c	Lat. 51° 52' N, Long. 13° 16' W; 410 fathoms; with acid, heaviest part	
S	C	738	23d	Lat. 51° 52' N, Long. 13° 16' W; 410 fathoms; with acid, light part	
S	C	739	24a	Lat. 51° 54' N, Long. 12° 27' W; 717 fathoms	
S	C	740	24b	Lat. 51° 54' N, Long. 12° 27' W; 717 fathoms; light part	
S	C	741	24c	Lat. 51° 54' N, Long. 12° 27' W; 717 fathoms; with acid, light part	
S	P	C	742	24d	Lat. 51° 54' N, Long. 12° 27' W; 717 fathoms; with acid, heaviest part

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 CALIFORNIA, OREGON AND WASHINGTON TERRITORIES
 

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S	P	C	743	1	Monterey, California; heavy portions
S	P	C	744	2	Monterey, California; large mass by edge and top of glass; with soda
S		C	745	A	Monterey, California; lower stratum
S		C	746	B	Monterey, California; lower stratum
S		C	747	C	Monterey, California; lower stratum
S		C	748	D	Monterey, California
S		C	749	E	Monterey, California; lower stratum
S		C	750	F	Monterey, California; lower stratum
S		C	751	G	Monterey, California; lower stratum
S		C	752	H	Monterey, California; lower stratum
S		C	753	I	Monterey, California; lower stratum
S		C	754	J	Monterey, California; lower stratum
S		C	755	K	Monterey, California; lower stratum
S		C	756	L	Monterey, California
S		C	757	M	Monterey, California
S		C	758	N	Monterey, California
S		C	759	O	Monterey, California
S		C	760	P	Monterey, California; lower stratum
S		C	761	Q	Monterey, California; large mass
S		C	762	R	Monterey, California; lower stratum
S		C	763	S	Monterey, California
S		C	764	T	Monterey, California; lower stratum
S		C	765	U	Monterey, California; lower stratum
S		C	766	V	Monterey, California
S		C	767	W	Monterey, California

S	C	768	X	Monterey, California	
S	C	769	Y	Monterey, California; a little dust and ashes accidently introduced	
S	C	770	Z	Monterey, California	
S	C	771	A'	Monterey, California	
S	C	772	B'	Monterey, California	
S	C	773	C'	Monterey, California	
	C		D'	not mounted; [no locality given]	
S	C	774	E'	Monterey, California; lower stratum; mounted but not recorded	
S	C	775	F'	Monterey, California	
S	C	776	G'	Monterey, California	
S	P	C	777	A	Tulare County, California
S	P	C	778	B	Tulare County, California
S	P	C	779	C	Tulare County, California
S	P	C	780	D	Tulare County, California
S	C	780-1/2	E	Tulare County, California	
S	P	C	781	A	San Luis Obispo, California
S	P	C	782	B	San Luis Obispo, California
S	P	C	783	C	San Luis Obispo, California
S	P	C	784	D	San Luis Obispo, California
S	P	C	785	E	San Luis Obispo, California
S	P	C	786	F	San Luis Obispo, California
S	P	C	787	G	San Luis Obispo, California
S	P	C	788	H	San Luis Obispo, California
S	P	C	789	A	Suisun Bay, California
S	P	C	790	B	Suisun Bay, California; treated with KO
S	P	C	791	C	Suisun Bay, California; (with KO)
S	P	C	792	D	Suisun Bay, California



S	P	C	793	E	Suisun Bay, California
S	P	C	794	A	Bodega Bay, California
S	P	C	795	B	Bodega Bay, California
S	P	C	796	C	Bodega Bay, California
S	P	C	797	D	Bodega Bay, California; on card A thick, with paper center, by 1/2-inch objective
S	P	C	798	E	Bodega Bay, California
S	P	C	799	F	Bodega Bay, California; coarse portions
		C		G	[Bodega Bay, California?]
S	P	C	800	H	Bodega Bay, California
S		C	801	I	[No information, no label]
S	P	C	802	J	San Luis Obispo, California
S	P	C	803	K	San Rafael, California; on <u>Myriophyllum</u> ; Dr. Torrey
S	P	C	804	L	California
S	P	C	805	M	San Francisco, California; on <u>Vallisneria</u>
S	P	C	806	N	Crystal [?] Palace, California; among minerals
S	P	C	807	O	California; marine
S		C	808	P	California; Szabo's [Izabo's] specimen
S		C	809	Q	California; fossil marine infusoria
S		C	810	R	California
S		C	811	S	Washington Territory; S.L. Andrews, 1855
S		C	812	A	Puget Sound, Washington Territory
S	P	C	813	B	Puget Sound, Washington Territory
S	P	C	814	C	Puget Sound, Washington Territory; oblique view; some determinations by Charles Stodder
S	P	C	815	D	Puget Sound, Washington Territory
S	P	C	816	E	Puget Sound, Washington Territory
S	P	C	817	F	Puget Sound, Washington Territory
S	P	C	818	G	Puget Sound, Washington Territory



S	C	819	H	Puget Sound, Washington Territory
S	C	820	I	Puget Sound, Washington Territory; from mud on root of <u>Costaria</u>
S	C	821	J	Puget Sound, Washington Territory
S	P	822		Puget Sound, Washington Territory
S	P	823		Puget Sound, Washington Territory; on <u>Rhodomela</u>
S	P	824		Puget Sound, Washington Territory; on a <u>Plocamium</u>
S	P	825		Puget Sound, Washington Territory
S	P	826		Puget Sound, Washington Territory; mud on <u>Iridaea</u>
S	P	827		Puget Sound, Washington Territory
S	P	828		Puget Sound, Washington Territory
S	P	829		Puget Sound, Washington Territory; on a <u>Polysiphonia</u> ; Dr. Torrey
S	P	830		Puget Sound, Washington; on a <u>Plocamium</u>
S	P	831		Puget Sound, Washington Territory
S	P	832		Puget Sound, Washington Territory; on <u>Plocamium</u>
S	P	833		Puget Sound, Washington Territory; on <u>Macrocytis</u>
S	P	834		Puget Sound, Washington Territory
S	P	835		Puget Sound, Washington Territory; ringed specimen on slide
S	P	836		Puget Sound, Washington Territory
S	P	837		Puget Sound, Washington Territory
S	P	C 838	A	Pit River, California; chalk cliffs; Lt. Williamson
S	C	839	B	California; Lt. Williamson
S	C	840	C	California; Lt. Williamson
S	C	841	D	Pit River near Boiling Spring, California; Lt. Williamson
S	C	842	E	California; Suisun shore at mouth of marine, Arsenal of Benicia; 3 feet below high water; Lt. Williamson
S	C	843	F	California; Cargrunes Straits, Benicia; marine, no. 2; Lt. Williamson

S	C	844	G	California; Alcatres and Telegraph, no. 12; 12 fathoms
S	C	845	H	Oregon Territory; Lt. Williamson
S	C	846		Honey Lake Valley, California; foot of Sierra Nevada; Dr. Riel [Schiel?]; no. 1
S	C	847	1	[Washington Territory]; Lt. McClellan
S	C	848	2	Washington Territroy; lake on divide at Snoqualmoo [= Snoqualmie = Yakima] Pass; 3543 feet above Vancouver; Lt. McClellan
S	C	849	2a	Washington Territory; lake on divide at Snoqualmoo [= Snoqualmie = Yakima] Pass; 3543 feet above Vancouver; Lt. McClellan
S	C	850	4	Washington Territory; Lake Willailootras [?]; 3013 feet above Vancouver; Lt. McClellan
S	C	851	4a	Washington Territory; Lake Willailootras [?]; 3013 feet above Vancouver; Lt. McClellan
S	C	852	6	Washington Territory; small lake near forks of First Barrier River; Lt. McClellan
S	C	853	11	Washington Territory; 20 miles from Spokane House, lake on Spokane Plains; Lt. McClellan
S* P	C	854	A	Oregon Territory; fossil infusoria; "Danas Accumen"
S* P	C	855	B	Oregon Territory; Fort George, Columbia River; Recent infusoria on a <u>Unio</u> [?]
S* P	C	856	C	Oregon Territory
S* P	C	857	D	Oregon Territory
S* P	C	858	E	Oregon Territory

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 GULF OF MEXICO
 

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S	C	859	A	Lat. 28° 52' N, Long. 83° 17' W; No. 1; 9 fathoms; by floating	
S	P	C	860	B	Lat. 24° 44' N, Long. 82° 09' W; No. 1; 10 fathoms; boiled with HCl acid
S	C	861	C	Lat. 24° 30' N, Long. 82° 10' W; No. 3; 12 fathoms	
S	P	C	862	D	Lat. 25° 13' N, Long. 81° 22' W; No. 4; 14 fathoms
S	C	863	E	Lat. 28° 33' N, Long. 83° 53' W; No. 5; 20 fathoms; washed out from warm [?] portion	
S	C	864	F	Lat. 25° 10' N, Long. 82° 48' W; Section VIII, No. 5; 24 fathoms, 2 feet	
S	C	865	G	Lat. 25° 10' N, Long. 82° 48' W; Section VIII, No. 5; 24 fathoms; light portions, natural state	
S	C	866	H	Lat. 28° 57' N, Long. 88° 51' W; Section VIII, No. 9; 152 fathoms	
S	P	C	867	I	Lat. 28° 58' N, Long. 88° 57' W; Section VIII, No. 10; 60 fathoms
S	C	868	J	Lat. 27° 50' N, Long. 85° 06' W; No. 11; 240 fathoms; boiled with HCl acid	
S	P	C	869	K	Lat. 32° 54' 01" N, Long. 76° 51' 15" W; Section VIII, No. 13; treated with hydrochloric acid; greensand and other casts
S	P	C	870	L	Lat. 29° 29' N, Long. 87° 19' W; Section VIII, No. 15; 150 fathoms; sandy, greensand casts
S	C	871	M	Lat. 27° 31' N, Long. 85° 19' W; Section VIII, No. 15; 320 fathoms; heavy parts treated with HCl	
S	P	C	872	N	Lat. 27° 33', Long. 84° 30'; No. 19; 85 fathoms; light portions in natural state
S	P	C	873	O	Lat. 28° 12' N, Long. 85° 47' W; 160 fathoms; treated with HCl
S	C	874	P	Lat. 29° 05' N, Long. 86° 25' W; 125 fathoms; acted on by HCl	
S	P	C	875	Q	Lat. 29° 02' N, Long. 80° 22' W; Section VIII, No. 22; 75 fathoms; coarse parts

S	C	876	R	Lat. 29° 15' N, Long. 86° 30' W; No. 23; 57 fathoms; casts of --
S	C	877	S	Lat. 29° 30' N, Long. 86° 41' W; No. 24; 16 fathoms;
S	C	878	S"	Lat. 27° 33' N, Long. 84° 30' W; Section VIII, No. 19; 85 fathoms
S	C	879	T	Lat. 27° 33' N, Long. 84° 30' W; Section VIII, No. 19; 85 fathoms
S	P	C	880	U Lat. 29° 05' N, Long. 86° 25' W; 125 feet [!]
S	P	C	881	V Lat. 29° 05' N, Long. 86° 25' W; 125 feet [!]
S	C	882	W	Lat. 25° 05' N, Long. 82° 38' W; 22 fathoms
S	C	883	X	Outside Mobile Bay, inside of Mobile Point, Alabama; 8 fathoms



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 PARA RIVER OF SOUTH AMERICA
 

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S	P	C	884	A	Para River, South America; Lat. 0° 45' 50" [S?]; Long. 48° 11' 25" W; vol. 17; 6-1/2 fathoms; no. 15; Bides Corries
S	P	C	885	B	Para River, South America; vol. 17; no. 3
S	P	C	886	C	Para River, South America, vol. 17; card A
S	P	C	887	D	Para River, South America; vol. 17; no. 14; near Para; 8 fathoms
S	P	C	888	E	Para River, South America; vol. 17; no. 15; first recorded by JWB on new card A; second recorded by LWB with Maltwood's Finder; some determinations by Loring W. Bailey
S	P	C	889	F	Para River, South America; vol. 17; <u>Dolphin</u> no. 14; by indicator
S	P	C	890	G	Para River, South America; vol. 17
S	P	C	891	H	Para River, South America; vol. 17; by indicator card A, by Maltwood's Finder, L.W.B.; some determinations by Loring W. Bailey
S	P	C	892	I	Para River, South America; vol. 17; Qurilee [?]
S	P	C	893	J	Para River, South America; off Tarpin Point; Lat. 0° 36' 15" S, Long. 48° 04' 55" W; vol. 17; <u>Dolphin</u> no. 16; by Maltwood's Finder; some determinations by Loring W. Bailey
S	P	C	894	K	Para River, South America; vol. 17; no. 3; recorded by L.W. Bailey with Maltwood's Finder
S	P	C	895	L	Para River, South America; vol. 17; <u>Dolphin</u> no. 3; slide no. 1; by Maltwood's Finder; some determinations by Loring W. Bailey
S	P	C	896	M	Para River, South America; vol. 17; <u>Dolphin</u> no. 3
S	P	C	897	N	Para River, South America; flood tide; Lat. 1° 25' 00" S, Long. 48° 27' 10" W; vol. 17; by Maltwood's Finder; some determinations by Loring W. Bailey
S	P	C	898	O	Para River, South America; Lat. 0° 29' 50" S, Long. 45° 58' 33" W; <u>Dolphin</u> no. 11; vol. 17; 33 fathoms; by Maltwood's Finder; some determinations by Loring W. Bailey
S		C	899	P	Para River, South America; sediment from water at ebb tide; vol. 17; <u>Dolphin</u> no. 24

- S P C 900 Q Para River, South America; Lat.  $0^{\circ} 45' 50''$  S, Long.  $48^{\circ} 11' 25''$  W; vol. 17, Dolphin no. 15 6-1/2 fathoms; by Maltwood's finder; some determinations by Loring W. Bailey
- S C 901 R Para River, South America; San Antonio Bay; Lat.  $1^{\circ} 14' 15''$  S, Long.  $48^{\circ} 26' 15''$  W; vol. 17; Dolphin no. 3
- S P C 902 S Para River, South America; San Antonio Bay; Lat.  $1^{\circ} 14' 15''$  S, Long.  $48^{\circ} 26' 15''$  W; vol. 17; 4 fathoms; by Maltwood's Finder; some determinations by Loring W. Bailey
- S P C 903 T Para River, South America; mouth of Para River; vol. 17; Dolphin no. 12; by Maltwood's Finder; some determinations by Loring W. Bailey; this slide bears 2 coverglasses: [a] (larger) - lightest part, [b] (smaller) - heavier
- S P C 904 U Para River, South America; Lat.  $0^{\circ} 19' 05''$  N, Long.  $45^{\circ} 43' 36''$  W; vol. 17; Dolphin no. 12; 33 fathoms; washings from sand
- S C 905 V Para River, South America; Lat.  $0^{\circ} 20' 58''$  N; Long.  $46^{\circ} 18' 31''$  W; vol. 17; [Dolphin no.] 10; 27 fathoms
- S C 906 W Para River, South America; vol. 17; surface water at mouth of Para River
- S C 907 X Para River, South America; vol. 17; Dolphin no. 16
- S C 908 Y Para River, South America; San Antonio Bay; vol. 17; Dolphin no. 3; 4 fathoms
- S C 909 Z Para River, South America; Lat.  $0^{\circ} 45' 50''$  S, Long.  $48^{\circ} 11' 25''$  W; vol. 17; depth 6-1/2 fathoms
- S C 910 A' Para River, South America; Lat.  $1^{\circ} 14' 15''$  S, Long.  $48^{\circ} 26' 15''$  W; San Antonio Bay; vol. 17; Dolphin no. 3
- S P C 911 B' Para River, South America; vol. 17; [Dolphin] no. 15
- S P C 912 C' Para River, South America; vol. 17; Dolphin no. 16; by Maltwood's Finder; some determinations by Loring W. Bailey
- S P C 913 D' Para River, South America; vol. 17; Dolphin no. 16; slide no. 3
- S P C 914 E' Para River, South America; vol. 17; Dolphin no. 16; slide no. 4

S	P	C	915	F'	Para River, South America; vol. 17; <u>Dolphin</u> no. 16
S		C	916	G'	Para River, South America
S		C	917	H'	Para River, South America; vol. 17
S		C	918	I'	Para River, South America; vol. 17; <u>Dolphin</u> no. 13; washed from coarse soundings
S	P	C	919	J'	Para River, South America; vol. 17; no. 15; by indicator, by Maltwood's Finder; some determinations by Loring W. Bailey
S	P	C	920	K'	Para River, South America; <u>Dolphin</u> no. 16; 13; by indicator, by Maltwood's Finder; some determinations by Loring W. Bailey
S	P	C	921	L'	Para River, South America; Tarpin Bay; Lat. 0° 37' 30" S, Long. 48° 03' 10" W; <u>Dolphin</u> no. 4
S	P	C	922	M'	Para River, South America; off Tarpin Point; Lat. 0° 36' 15" S, Long. 28° 04' 55" W; <u>Dolphin</u> no. 16
S	P	C	923	N'	Para River, South America; <u>Dolphin</u> no. 16
S	P	C	924	O'	Para River, South America
S	P	C	925	P'	Para River, South America; at Una [?]; sediment at flood tide; Lat. 1° 25' S, Long. 48° 27' 10" W; 17 B; by Maltwood's Finder; some determinations by Loring W. Bailey



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 NORTH ATLANTIC OCEAN AND CANADIAN ARCTIC OCEAN
 

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S	C	926	1a	North Atlantic Ocean; Lat. 48° 12' N, Long. 49° 42' W; [U.S.S.] <u>Arctic</u> ; 466 fathoms; natural state
S	C	927	1b	North Atlantic Ocean; Lat. 48° 12' N, Long. 49° 42' W; [U.S.S.] <u>Arctic</u> ; 466 fathoms; light parts, natural state
S	C	928	2a	North Atlantic Ocean; Lat. 49° 40' N, Long. 48° 29" W; [U.S.S.] <u>Arctic</u> ; 1080 fathoms; natural state
S	C	929	2b	North Atlantic Ocean; Lat. 49° 36' N, Long. 49° 15' W; 732 fathoms; lights parts, natural state
S	C	930	3a	North Atlantic Ocean; Lat. 49° 40' N, Long. 48° 29' W; 1080 fathoms; natural state
S	C	931	3b	North Atlantic Ocean; Lat. 49° 40' N, Long. 48° 29' W; 1080 fathoms; light part, natural state
S	C	932	4a	North Atlantic Ocean; Lat. 49° 49' N, Long. 46° 43' W; 1590 fathoms; natural state
S	C	933	4b	North Atlantic Ocean; Lat. 49° 49' N, Long. 46° 43' W; 1590 fathoms; light part, natural state
S	C	934	5	North Atlantic Ocean; Lat. 49° 49' N, Long. 45° 54' W; 1827 fathoms; natural state
S	C	935	6a	North Atlantic Ocean; Lat. 49° 50' N, Long. 44° 43' W; 1627 fathoms; natural state
S	C	936	6b	North Atlantic Ocean; Lat. 49° 50' N, Long. 44° 43' W; 1627 fathoms; with acid heaviest part
S	C	937	6c	North Atlantic Ocean; Lat. 49° 50' N, Long. 44° 43' W; 1627 fathoms; with acid light part
S	C	938	7a	North Atlantic Ocean; Lat. 51° 43' N, Long. 13° 44' W; 255 fathoms; natural state
S	C	939	7b	North Atlantic Ocean; Lat. 51° 43' N, Long. 13° 44' W; 255 fathoms; with acid heaviest part
S	C	940	7b'	North Atlantic Ocean; Lat. 51° 43' N, Long. 13° 44' W; 255 fathoms; natural state
S	C	941	7c	North Atlantic Ocean; Lat. 51° 43' N, Long. 13° 44' W; 255 fathoms; with acid heavy part
S	P C	942	7d	North Atlantic Ocean; Lat. 51° 43' N, Long. 13° 44' W; 255 fathoms; with acid heavy part



S	P	C	943	7e	North Atlantic Ocean; Lat. 51° 43' N, Long. 13° 44' W; 255 fathoms; with acid heaviest part
S	P	C	944	7f	North Atlantic Ocean; Lat. 51° 43' N, Long. 13° 44' W; 255 fathoms; with acid mixed heavy and light parts
S	P	C	945	8a	Assistance Bay, Barrow Strait, Northwest Territories, Canada; Lat. 74° 30' N, Long. 94° 16' W; 7 fathoms; muddy bottom
S		C	946	8b	Sand from North Pole; Captain Parry

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 BERING AND CHUKCHI SEAS
 

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S	P	C	947	Aa	[Bering Sea =] Sea of Kamtschatka; 900 fathoms
S	P	C	948	Ab	[Bering Sea =] Sea of Kamtschatka; 900 fathoms
S	P	C	949	Ac	[Bering Sea =] Sea of Kamtschatka; 900 fathoms
S	P	C	950	Ad	[Bering Sea =] Sea of Kamtschatka; 1700 fathoms
S	P	C	951	Ae	Bering Sea; Lat. 56° 46' N, Long. 168° 18' E; 2700 fathoms; last washings, very poor slide
S		C	952		Strait of Sangus, <u>Hancock</u> no. 1; 29 fathoms
S		C	953		Phillipine Sea near Ryuku Islands; Lat. 30° 35' N, Long. 130° 40' E; <u>Hancock</u> no. 2
S		C	954		Phillipine Sea near Ryuku Islands; Lat. 30° 35' N, Long. 130° 40' E; <u>Hancock</u> no. 3
S	P	C	955		<u>Hancock</u> no. 4; 22 fathoms
S		C	956		Phillipine Sea near Ryuku Islands; Lat. 30° 35' N, Long. 130° 40' E; <u>Hancock</u> no. 5
S	P	C	957		<u>Hancock</u> no. 6; no. 40; 30 fathoms
S		C	958		<u>Hancock</u> no. 7; "198"
S		C	959		<u>Hancock</u> no. 8; "202"
S		C	960		Bering Strait; Lat. 66° 36' 15" N, Long. 170° 02' W; <u>Vincennes</u> no. 1a; "noisings?" [unintelligible]
S		C	961		Bering Strait; Lat. 66° 36' 15" N, Long. 170° 02' W; <u>Vincennes</u> no. 1b; "noisings?" [unintelligible]
S		C	962		Chukchi Sea; Lat. 71° 16' N, Long. 170° 06' W; <u>Vincennes</u> no. 2a; 28 fathoms
S		C	963		Chukchi Sea; Lat. 72° 05' 27" N, Long. 174° 37' 15" W; <u>Vincennes</u> no. 3a; 40 fathoms
S		C	964		Chukchi Sea; Lat. 72° 05' 27" N, Long. 174° 37' 05" W; <u>Vincennes</u> no. 3b; 40 fathoms
S		C	965		Chukchi Sea; Lat. 72° 05' 27" N, Long. 174° 37' 05" W; <u>Vincennes</u> no. 3b; 40 fathoms
S		C	966		Chukchi Sea; Lat. 72° 05' 27" N, Long. 174° 37' 05" W; <u>Vincennes</u> no. 3b; 40 fathoms

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 AMERICAN DIATOMS
 

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S	C	967	A	West Point, New York	
S	C	968	B	East River, New York; F. Frey	
S	C	969	C	Sag Harbor, New York	
S	C	970	D	Hudson River, New York	
S	C	971	E	Catskill, New York; stream in Stony Clove	
S	P	C	972	F	Catskill Lake, New York; infusoria
S	C	973	G	Catskill, New York; basin of Dog Hole Fall	
S	C	974	H	Catskill Lake, New York; infusoria	
S	C	975	I	Hyde Park, New York; stream; Sept. 1854; no. 2	
S	C	976	J	Hyde Park, New York; stream; Sept. 1854; no. 3	
S	C	977	K	Jamaica Bay, Long Island, New York; infusoria	
S	C	978	L	Niagara, New York; remarkable circular disc from mud adhering to <u>Chara</u> near Biddle's stairs; this specimen has been treated with acid	
S	P	C	979	M	West Point, New York
S	P	C	980	N	West Point, New York
S	P	C	981	O	West Point, New York
S	C	982	P	Amboy, New Jersey	
S	C	983	Q	Hoboken, New Jersey	
S	C	984	R	Hoboken, New Jersey; Mr. Edwards	
S	C	985	S	Hoboken, New Jersey; Mr. Edwards	
S	C	986	T	Milford, Connecticut	
S	C	987	U	New Haven, Connecticut	
S	C	988	V	Smithfield, Rhode Island	
S	P	C	989	W	Smithfield, Rhode Island
S	P	C	990	X	Smithfield, Rhode Island
S	C	991	Y	Boston, Massachusetts; filtered from Cochituate water; Prof. Hersford	

S	C	992	Z	Bridgewater, Massachusetts
S	P C	993	A'	Borr, New Hampshire; fossil fluviatile diatoms
S	C	994	B'	Borr, New Hampshire
S	C	995	C'	Blue Hill Pond, Maine; no. 1
S	C	996	D'	Blue Hill Pond, Maine; no. 2
S	P C	997	E'	Blue Hill Pond, Maine
S	C	998	F'	Blue Hill Pond, Maine
S	C	999	G'	Blue Hill Pond, Maine
S	C	1000	H'	Blue Hill Pond, Maine
S	C	1001	I'	Blue Hill Pond, Maine
S	C	1002	J'	Blue Hill Pond, Maine; cleared
S	C	1003	K'	(No locality)
S	C	1004	L'	(No locality)
S	C	1005	M'	Arctic Regions
S	C	1006	N'	Arctic Regions
S	C	1007	O'	Severn River, Maryland



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 FOREIGN DIATOMS
 

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S	1008	Humber River, England
S	1009	Humber River, England
		[Slides with round yellow labels (#1010-1020 and 1023-1034 are those of R.K. Greville according to Robert Ross, 10 November 1976.)]
S	1010	Loch of Skail, Orkney, Scotland
S	1011	Clova Mountains, Scotland; 1854
S	1012	Clova Mountains, Scotland; 1854
S	1013	Glen Tilt, Scotland; 1855
S	1014	Glen Tilt, Scotland; 1855
S	1015	St. Mary's Loch, Dumfriesshire, Scotland; 1855
S	1016	Ben Lawers, Scotland; 1855
S	1017	Redesdale, England
S	1018	Yorkshire, England; 1854
S	1019	Goat Fell, Arran Island, Scotland; Balfour 1856
S	1020	near Edinburgh, Scotland; Rev. Wm. Smith
	1021	[No record]
	1022	[No record]
S	1023	Allan Water, Scotland; 1855
S	1024	Firth of Forth, Scotland
S	1025	Firth of Forth, Scotland
S	1026	Sussex, England; 1855
S	1027	Braemar, Scotland; 1854
S	1028	Braemar, Scotland; 1854
S	1029	Haverfordwest, Wales
S	1030	Haverfordwest, Wales
S	1031	Haverfordwest, Wales

S		1032		St. Abb's Head, Scotland; 1855
S		1033		River Tummel, Scotland; 1855
S		1034		Ormesby, England; Diatomaceae
				[Slides #1035-1042 all bear round purple labels.]
S		1035		Harwich, England
S		1036		[No locality]
S		1037		Ipswich Docks, England; Diatomaceae
S		1038		Harwich, England
S		1039		[No locality]; <u>Amphiprora elegans</u> n. sp., E.B.
S		1040		Bury, England; Sr. Edmunds [?]
S		1041		[No locality]
S		1042		Hartford bridges, England; Diatomaceae
S		1043		[No locality]
S		1044		Port Royal, Jamaica
S		1045		Ceylon; washed from <u>Claudea multifida</u>
S	P	C	1046	P' [No locality]
S	P	C	1047	Q' Carmarthen, Wales; brickyard
S	P	C	1048	R' Cherbourg, France; Diatomées marine du pomet Cherbourg

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 CASTS OF POLYTHALAMIA AND GUANO
 

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S	P	C	1049	1a	Leon Springs, West Texas; U.S. Mexican Boundary Survey; no. 18; greensand casts
S	P	C	1050	1b	Leon Springs, West Texas; U.S. Mexican Boundary Survey; no. 18; greensand casts
S	P	C	1051	2a	Jackson, Mississippi
S	P	C	1052	2b	Jackson, Mississippi
S	P	C	1053	3a	Alabama; martix of <u>Zygodon</u> ; casts of -
S	P	C	1054	4a	Charleston, South Carolina; 130 feet; by stage indicator
S	P	C	1055	4b	South Carolina; Eocene; greensand casts, with <u>Ostrea sellaeformis</u>
S	P	C	1056	4c	South Carolina; Eocene; greensand casts, with <u>Ostrea sellaeformis</u>
S	P	C	1057	4d	South Carolina; Eocene; greensand casts, with <u>Ostrea sellaeformis</u>
S	P	C	1058	4e	Drayton Hall, South Carolina; Eocene; casts of Polythalamia
S	P	C	1059	5a	North Carolina; Eocene; casts of Polythalamia, with <u>Scutella Lyelli</u>
S	P	C	1060	5b	North Carolina; Eocene; casts of Polythalamia, with <u>Scutella Lyelli</u>
S	P	C	1061	5c	North Carolina; Eocene; casts of Polythalamia, with <u>Scutella Lyelli</u>
S		C	1062	5d	North Carolina; Eocene; casts of Polythalamia, with <u>Scutella Lyelli</u>
S	P	C	1063	6a	near Mount Holly, New Jersey; Cretaceous; casts of -
S	P	C	1064	6b	near Mount Holly, New Jersey; Cretaceous; casts of -
S		C	1065	6c	near Mount Holly, New Jersey; casts of -
S		C	1066	7a	Hessenberg, [Germany ?]; near Transverstein [?]; casts of <u>Nummulites complanata</u> ; left by action of HCl
S		C	1067	7b	Hessenberg, [Germany ?]; near Transverstein [?]; casts of <u>Nummulites complanata</u>



S	C	1068	7c	Hessenberg, [Germany ?]; near Transverstein [?]; section of casts of cells of <u>Nummulites complanata</u> ; left by action of HCl
S	C	1069	7d	Hessenberg, [Germany ?]; near Transverstein [?]; casts of cells of <u>Orbitulites</u> , <u>Nummulites complanata</u>
S	C	1070	7e	Hessenberg, [Germany ?]; near Transverstein [?]; casts of <u>Nummulites complanata</u>
S	P	C	1071	A [Peru]; Johnson's guano; card B
S	P	C	1072	B [Peru]; guano; Judge Johnson; card A recleaned; some determinations by Charles Stodder
S	C	1073	C	[Peru]; Johnson guano; light portions
S	P	C	1074	D Chincha Islands, Peru; guano
S	P	C	1075	E [Peru]; guano; Johnson; card A
S	C	1076	F	[Peru]; guano from A.S. Johnson
S	C	1077	G	Peruvian guano; A.S. Johnson; May 1855
S	P	C	1078	H Peruvian guano; A.S. Johnson; card A; some determinations by Charles Stodder
S	P	C	1079	I [Peru]; Peruvian Government guano; guano from Judge Johnson
S	C	1080	J	Chincha Islands, Peru; guano; A.S. Johnson; 1850; 8 divisions
S	C	1081	K	[Peru]; guano; Dr. VanArsdale
S	P	C	1082	L Peruvian guano; Dr. VanArsdale
S	C	1083	M	[Peru]; guano; Dr. VanArsdale
S	P	C	1084	N Chincha Islands, Peru; guano; Dr. VanArsdale
S	C	1085	O	Patagonia; guano; Dr. VanArsdale
S	P	C	1086	P Patagonia; guano; Dr. VanArsdale; ignited
S	P	C	1087	Q Ichaboe [?]; guano; Dr. VanArsdale; ignited
S	P	C	1088	R Ichaboe [?]; guano; Dr. VanArsdale
S	C	1089	S	Ichaboe [?]; guano; infusoria; H. Deane
S	C	1090	T	Ichaboe [?]
S	C	1091	U	Recent infusoria from Ichaboe [?] guano

S	C	1092	V	Saldanha Bay, Union of South Africa; Recent infusoria from ... guano	
S	C	1093	W	Saldanha Bay, Union of South Africa; Recent infusoria from ... guano	
S	C	1094	X	[No locality]; shell from guano	
S	C	1095	Y	[No locality]; guano	
S	C	1096	Z	[No locality]; guano	
S	C	1097	A'	[No locality]; guano	
S	C	1098	B'	Chincha Islands, Peru; guano; 8; a pair with part of the ring between them separated in mounting	
S	P	C	1099	C'	Chincha Islands, Peru; guano
S	P	C	1100	D'	East Coast of Africa; guano
S	C	1101	E'	[No locality]; Diatomaceae from guano "A"; in balsam; from Mr. Edwards, N.Y.; July 1856	
S	C	1102	F'	[No locality]; from guano; in balsam; from Mr. Edwards, N.Y.; July 1856	

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FOSSIL POLYTHALAMIA FROM NORTH AMERICA

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S	C	1103	A	Monterey, California; fossil Polythalamia; extracted by means of KO, from a greenish stone
S	C	1104	B	Monterey, California; fossil Polythalamia; by KO
S	C	1105	C	Monterey, California; fossil Polythalamia; by KO
S	C	1106	D	Monterey, California; fossil
S	C	1107	E	Leon Springs, West Texas; U.S. Mexican Boundary Survey, no. 18; Cretaceous
S	C	1108	F	Upper Missouri; yellow calcareous marl
S	C	1109	G	Upper Missouri; yellow calcareous marl; Dr. Nicollet
S	C	1110	H	Upper Missouri; yellow calcareous marl
S	P	C	1111	I Upper Missouri; yellow calcareous marl; Cretaceous
S	C	1112	J	Columbus, Mississippi; coarsest part; 260 feet
S	C	1113	K	Columbus, Mississippi; coarsest part; 260 feet
S	P	C	1114	L Columbus, Mississippi; 140 feet
S	P	C	1115	M Columbus, Mississippi; 140 feet
S	P	C	1116	N Columbus, Mississippi; 140 feet; heavy part
S	C	1117	O	Columbus, Mississippi; 260 feet; heaviest part
S	P	C	1118	P Jackson, Mississippi
S	P	C	1119	Q Jackson, Mississippi
S	C	1120	R	Mississippi Station, Mississippi
S	C	1121	S	Mississippi Station, Mississippi
S	P	C	1122	T Alabama; matrix of <u>Zygodon</u>
S	C	1123	U	Centreport, Alabama
S	C	1124	V	Centreport, Alabama
S	P	C	1125	W Centreport, Alabama
S	C	1126	X	South Carolina; Eocene; Polythalamia with <u>Ostrea sellaeformis</u>
S	C	1127	Y	[No locality]; chalk; cleaned with CO <sup>2</sup>



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FOSSIL DIATOMS FROM VIRGINIA, MARYLAND AND BERMUDA

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S	P	C	1128	1a	Richmond, Virginia
S	P	C	1129	1b	Richmond, Virginia
S	P	C	1130	1c	Richmond, Virginia
S	P	C	1131	1d	Richmond, Virginia
S	P	C	1132	1e	Richmond (Church Hill), Virginia
S	P	C	1133	1f	Richmond (Church Hill), Virginia
S	P	C	1134	1g	Richmond, Virginia
S		C	1135	1h	Richmond, Virginia; infusoria
S	P	C	1136	1i	Richmond, Virginia
S	P	C	1137	1j	Richmond, Virginia
S	P	C	1138	1k	Richmond, Virginia
S	P	C	1139	1l	Richmond, Virginia
S	P	C	1140	1m	Richmond, Virginia
S	P	C	1141	1n	Richmond, Virginia
S	P	C	1142	2a	Piscataway, Maryland; treated with KO; light portions
S	P	C	1143	2b	Piscataway, Maryland; with KO; heavy part
S	P	C	1144	2c	Piscataway, Maryland
S	P	C	1145	2d	Piscataway, Maryland
S	P	C	1146	2e	Piscataway, Maryland
S	P	C	1147	2f	Piscataway, Maryland
S	P	C	1148	2g	Piscataway, Maryland
S	P	C	1149	2h	Piscataway, Maryland
S	P	C	1150	2i	Piscataway, Maryland; (a few Barbadoes Polycistines introduced by some accident)
S		C	1151	2j	Piscataway, Maryland; light portions
S	P	C	1152	2k	Piscataway, Maryland
S	P	C	1153	3a	Calvert County, Maryland

S	P	C	1154	3b	Calvert County, Maryland; fossil infusoria and polycistines; with a new <u>Tellina</u>
S	P	C	1155	4a	Richmond, Virginia
S		C	1156	4b	Richmond, Virginia
S	P	C	1157	5a	Rappahannock, Virginia; Dr. Chilton
S	P	C	1158	5b	Rappahannock Cliffs, Virginia; Dr. Chilton; boiled in water
S		C	1159	6a	Petersburg, Virginia; fossil infusoria
S	P	C	1160	7a	Hollis Cliffs, Virginia
S	P	C	1161	7b	Hollis Cliffs, Virginia
S	P	C	1162	7c	Hollis Cliffs, Virginia
S	P	C	1163	7d	Hollis Cliffs, Virginia
S	P	C	1164	8a	Bermuda*
S	P	C	1165	8b	Bermuda*
S	P	C	1166	8c	Bermuda*
S	P	C	1167	8d	Bermuda*
S	P	C	1168	8e	Bermuda*, fossil infusoria; tripoli
S	P	C	1169	8f	Bermuda*
S	P	C	1170	8g	Bermuda*, HNA; <u>Aulocodiscus crux</u> (double)
S		C	1171	8h	Bermuda*
S	P	C	1172	8i	Bermuda*, received from A.S. Johnson; April 22, 1856
S	P	C	1173	8j	Bermuda*
S	P	C	1174	8k	Bermuda*, KO
S	P	C	1175	8l	Bermuda*, KO
S	P	C	1176	8m	Bermuda*
S	P	C	1177	8n	Bermuda*, KO
S		C	1178	8o	Bermuda*, HNA
S		C	1179	8p	Bermuda*, Dr. VanArsdale

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\* See note on page 154.

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FOSSIL POLYCYSTINES AND DIATOMS FROM BARBADOES

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S	C	1180	A	Barbadoes; fossil infusoria
S	P	C	1181	B Barbadoes; new card B
S	P	C	1182	C Springfield, Barbadoes; by new card B
S	P	C	1183	D Barbadoes; card B
S	P	C	1184	E Springfield, Barbadoes; Spencer's 1/16 in field at N.E. margin by this reference
S	P	C	1185	F Springfield, Barbadoes; new card B
S	P	C	1186	G Springfield, Barbadoes; light portions
S	P	C	1187	H Springfield, Barbadoes; J.W.B.; light portions
S	P	C	1188	I Scotland, Barbadoes
S	P	C	1189	J Springfield, Barbadoes
S	P	C	1190	K Springfield, Barbadoes; light portions boiled in [unintelligible], then chlorated
S	P	C	1191	L Barbadoes; polycystines (floating)
S	P	C	1192	M Scotland District, Barbadoes; with acids and soda
S	P	C	1193	N Scotland District, Barbadoes
S	C	1194	O	Scotland District, Barbadoes; cleaned with HCl gas
S	P	C	1195	P Scotland District, Barbadoes
S	P	C	1196	Q Scotland District, Barbadoes; first results with HCl acid gas
S	P	C	1197	R Barbadoes
S	P	C	1198	S Springfield, Barbadoes; in two [circles] are rare small forms
S	P	C	1199	T Barbadoes; heavy portion; heated with boiling water then chlorated
S	P	C	1200	U Scotland District, Barbadoes
S	P	C	1201	V Springfield, Barbadoes; boiled in HO then chlorated; by candlelight
S	P	C	1202	W Scotland District, Barbadoes; treated with HCl and then with HO



S	C	1203	X	Scotland District, Barbadoes; HCl gas	
S	P	C	1204	Y	Springfield, Barbadoes
S	P	C	1205	Z	Barbadoes
S	P	C	1206	A'	Barbadoes
S	P	C	1207	B'	Barbadoes; fossil infusoria
S	P	C	1208	C'	Barbadoes
S	P	C	1209	D'	Barbadoes
S	P	C	1210	E'	Barbadoes; fossil infusoria
S	P	C	1211	F'	Barbadoes
S	P	C	1212	G'	Barbadoes
S	P	C	1213	H'	Barbadoes; [unintelligible]
S	P	C	1214	I'	Barbadoes
S	P	C	1215	J'	Barbadoes
S	P	C	1216	K'	Barbadoes
S	P	C	1217	L'	Barbadoes
S	P	C	1218	M'	Barbadoes
S	P	C	1219	N'	Barbadoes
S	P	C	1220	O'	Springfield, Barbadoes
S	P	C	1221	P'	Barbadoes
S	P	C	1222	Q'	Barbadoes; "reticulatum cone"
S	C	1223	R'	Barbadoes	

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 VEGETABLE TISSUES - RECENT
 

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S	P	1224	Vessels of roots of <u>Leontodon</u>
	P	1225	[No information]
S		1226	Vessels of common fig
S		1227	Gritty tissue of pear
		1228	[No information]
S		1229	Vessels of <u>Stapelia</u>
S		1230	Fibroceullular tissue of <u>Saccolabium guttatum</u>
S		1231	Fibrocellular tissue of <u>Oncidium</u> [ <u>Bonplonchana</u> ?]
S		1232	Fibrocellular tissue of <u>Oncidium pumilum</u>
S		1233	Scalariform vessels of leaf of fern
		1234	[No information]
		1235	[No information]
S		1236	Hard tissue from orchid
		1237	[No information]
S		1238	Tissue from seed of gourd
S		1239	Hair from a leaf
S		1240	Fungus - <u>Arcyria punicea</u>
		1241	[No information]
		1242	Stone of the peach, longitudinal section; June 27th, 1852
		1243	[No information]
		1244	[No information]
S		1245	New fungus
S		1246	[No label; appears to be moss leaves]
S		1247	Raphide of aloe
S		1248	Vessels from Canna [bicolor ?]
		1249	[No information]

	1250	[No information]
S	1251	[Ducts ?] of latex from <u>Euphorbia splendens</u> ; diluted [unintelligible] acid and [unintelligible] varnish
S P	1252	Fiber of locust; with ashes of same
S P	1253	Fiber of chestnut; with ashes of same
S P	1254	Crystals of testa of seed of elm; Phl. Sod. 20.5.42
S P	1255	Hickory; [no material left on slide]
S	1256	Crystals from <u>Quillaia</u>
S P	1257	From <u>Equisetum</u> by strong nitric acid; does not polarize
S P	1258	Silica from leaf of <u>Olyra paniculata</u> ; does not polarize
S P	1259	Silica from leaf of <u>Arundo donax</u> ; does not polarize
S P	1260	Silica from cuticle of <u>Arundo donax</u> ; does not polarize
S P	1261	Silica from cuticle of <u>Ratonia</u> ; does not polarize
S P	1262	<u>Equisetum</u> with NO <sup>5</sup> , then ignited; does not polarize
S P	1263	Siliceous cuticle of <u>Equisetum</u>
S P	1264	Silica from the glumes and awns of barley; does not polarize
S P	1265	Silica from glumes and awns of barley
S P	1266	Prickles from an awn of <u>Aegilops</u>
S P	1267	Perianth on <u>Nitella</u>
S P	1268	Silica from cuticle of <u>Equisetum</u> ; English specimens
S P	1269	Siliceous cuticle of <u>Equisetum</u>
S P	1270	South Sea island fabric
S	1271	Sections of [Cypeliger ?] knee; longitudinal and transverse - 2 coverglasses
	1272	[No information]
S	1273	Smut [?]; no. 12; parallel to fiber
S	1274	No. 3; transverse [unintelligible]
	1275	[No information]



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 VEGETABLE TISSUES - FOSSIL
 

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S	1276	Sierra Nevada, California; fossil wood; William Blake
S	1277	Coniferous wood; E.J. Quekett
S	1278	Coniferous; London clay; E.J. Quekett
S	1279	Connecticut; fossil wood
S	1280	Long Branch, New Jersey; fossil wood, coniferous; in balsam; Dr. Goddard 1855
S	1281	Long Branch, New Jersey; fossil wood, coniferous; in [unintelligible]; Dr. Goddard
S	1282	Mullica Hill, New Jersey; fossil coniferous wood; curious structure
S	1283	Texas; fossil wood
S	1284	Van Dieman's Land [= Tasmania]; fossil coniferous wood
S	1285	Dotted ducts from anthracite
S	1286	Coal; E.J. Quekett
S	1287	Nummulite; Mr. Marshall
S	1288	Nummulite
S	1289	Monterey, California
S	1290	Burlington, Vermont; fossil Spongolites
S P	1291	Dotted ducts from anthracite; J.W. Bailey
S P	1292	Dotted ducts from anthracite; J.W. Bailey
S P	1293	Curious vegetable structure from anthracite
S P	1294	Dotted vessels from anthracite
S P	1295	Ducts in anthracite still carbonated
S P	1296	Cape Fear River, North Carolina; fossil coniferous wood; from a large piece in American Museum
S P	1297	Ceylon; palm; E.J. Quekett
S P	1298	Palm; E.J. Quekett
S P	1299	Traces of dotted ducts

S	P	1300	Van Dieman's Land [= Tasmania]; silicified coniferous wood
S	P	1301	Tierra de los Nimbus, New Mexico; Lat. 35° [36°?] 51' N, Long. 107° 29' W; no. 8 of Simpson's series
S	P	1302	Fossil wood, no. 4
S	P	1303	Vertical section of fossil fruit no. 13
S	P	1304	Transverse section of fossil fruit no. 13
S	P	1305	Lebanon, Marion County, Kentucky; fossil wood; lower Devonian; Proceedings Am. Ass'n. meeting, 6.1.43
S	P	1306	Herne Bay, Kentucky; fossil wood (not piperaceous)

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ANIMAL TISSUES - VERTEBRATA

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S	1307	Vertical section of horn of the rhinoceros
S	1308	Hoof of rhinoceros
S	1309	Horn of rhinoceros
S	1310	Skin of rhinoceros
S	1311	Horn of antelope
S	1312	Hoof of antelope
S	1313	Vertical section of hoof of the sheep
S	1314	Transverse section of hoof of the sheep
S	1315	Transverse section of rhinoceros hair
S	1316	Transverse section of hair of anteater
S	1317	Esophagus of snake
S	1318	Large femur of <u>Iguanodon</u> ; vertical; from Dr. Mantell
S	1319	Hoof of ox
S	1319-1/2	Hoof of ass; no. 1
S	1320	Hoof of ass; no. 2
S	1321	North Carolina; fossil shark's tooth; April 10, 1852
S	1322	Hair of <u>Ornithorhynchus</u>
S	1323	<u>Lepidotus</u>
S	1324	Section of scale of armadillo
S	1325	Hair of American deer
S P	1326	Mucous membrane of the second stomach of a porpoise; injected with size [?] and [unintelligible]
S P	1327	Transverse section of the tooth of a sawfish very near the top
S	1328	[Unintelligible] from the leg of the [young ?] geese; [H---?] 1850
S	1329	Skin from near the hoof of the leg of the sheep, a portion of cuticle remains; [H---?] 1850





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ANIMAL TISSUES - ARTICULATA

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S	1340	Fossil sporo? [unintelligible] from [unintelligible] clay
S	1341	Trachea in tail of a larva of <u>Libella</u>
S	1342	Trachea of an aquatic larva; West Point, New York
S	1343	Head of a dipteran insect; West Point, New York; July 10, 1852
S	1344	Hair of Tarantula - abdomen
S	1345	<u>Pediculus pubis</u>
S	1346	<u>Acarus vegetans</u>
S	1347	Gizzard of cricket; "25"
S	1348	Tongue of moth
S	1349	<u>Pamphagus mutabilis</u> Bailey; 1853
S	1350	Gastric teeth of cricket
S	1351	Foot of Aphion [?]
S	1352	Scales of <u>Lepisina</u> ; #1576; prepared by E. Samuels, Boston
S	1353	Patte de Morche; Charles Chevalier, Palais Royal, Paris, France
S	1354	Fausse-patte de Chenille
S P	1355	From bat
S P	1356	From graffinch
S P	1357	<u>Acarus</u> ; from crow
S P	1358	<u>Acarus</u> ; [unintelligible]; from chaffinch
S P	1359	From pigeon; West Point, New York
S P	1360	Lips of fly
S P	1361	Proboscis of blowfly
S P	1362	Diamond beetle
S P	1363	Hairs of <u>Meribielia</u> [?] <u>oligospermia</u> [?]; Arkansas; Dr. Torrey
S P	1364	Hairs from leaves of <u>Dermestes</u> [?]

S	P	1365[A-D]	Parasite on a lizard from Rick Owen [See letter dated 17 October 1853]
S	P	1366	Epiderme de Chenille; J. Bourgogne - preparateur
S	P	1367	Acarus sila; Mouche des appartement; J. Bourgogne - preparateur
S	P	1368	Acarus du Xiloscope; J. Bourgogne - preparateur
S	P	1369	Mouche syrphide trompe; J. Bourgogne - preparateur
S	P	1370	Abeille mouche à miel Couche; J. Bourgogne - preparateur
S	P	1371	Abeille mf. à miel Aiguillon; J. Bourgogne - preparateur
S	P	1372	Tracheir du Ver a foie, 24 Avril, L.B.; J. Bourgogne - preparateur
S	P	1373	Plume d'oiseau le sucrier; J. Bourgogne - preparateur
S	P	1374	Trips du Blé; J. Bourgogne - preparateur
S	P	1375	Trips des fleurs; J. Bourgogne - preparateur
S	P	1376	Foot of <u>Stenepteryx</u> <u>hirundinis</u>



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ANIMAL TISSUES - MOLLUSCA & RADIATA

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S	1377	Rasp of <u>Melania</u> ; J.E. Gavit
S	1378	<u>Echinus</u> spine; J.E. Gavit; May 2, 1852
S	1379	Longitudinal section, spine of <u>Echinus</u> ; John E. Gavit; May 5, 1852
S	1380	Transverse section of spine of <u>Echinus</u>
S	1381	Young <u>Echinus</u> ; Monterey, California
S	1382	Section of spine of <u>Echinus</u>
S	1383	Ambulacral appendages of <u>Echinus</u>
S	1384	<u>Echinus</u> spine; J.E. Gavit
S	1385	Tuberculated spicules and sponges
S	1386	Tuberculated spiculum; Dr. Bailey
S	1387	Spicule of sponge; Alqua [?] Bay, Africa
S	1388	Sponge spicule; unknown
S	1389	Spicules of <u>Pachymatisma Johnstonia</u> ; Torquay [= Torbay], Devonshire, England
	1390	[No information]
S	1391	Spicules of <u>Alcyonella</u>
	1392	[No information]
	1393	[No information]
	1394	[No information]
S	1395	Spine of <u>Cedarius</u> [?]; from Dr. Mantell to J.W. Bailey; Dr. Carpenter
S	1396	<u>Cedarius</u> spine; J.E. Gavit; May 11, 1852
S	1397	Section of spine of <u>Cedarius</u> [?]; <u>Cladophora mamillata</u>
S	1398	Section of <u>Pinna</u> shell
S	1399	Animal matter of <u>Pinna</u> shell
	1400	[No information]
	1401	[No information]

	1402	[No information]
	1403	[No information]
	1404	[No information]
	1405	[No information]
	1406	[No information]
S	1407	Transverse section of pearl
S	1408	Tongue of <u>Conops</u>
S	1409	<u>Hydra viridis</u> ; its tentacles with captor organs
S	1410	<u>Hydra fusca</u> ; its tentacles with captor organs; July, 1852
S	1411	Eggs of <u>Plumatella</u> ; West Point, New York; 1852
S	1412	Stomach of <u>Macropoma</u> ; from Dr. Mantell
S P	1413	Shell from guano; (Jl)
S P	1414	Spicules, Tonga
S P	1415	Calcareous particles in crust of <u>Gorgonia</u> ; Cape of Good Hope, Africa
S P	1416	Palate of a <u>Lymneus</u> ; Burlington, New Jersey
S P	1417	[Unintelligible] plate of <u>Sclerodactyla binareus</u> [?]
S P	1418	Sponge spiculae
S P	1419	Sponge spiculae; Mediterranean Sea
S P	1420	<u>Volvox globator</u> ; Manchester, England
S	1421	<u>Texidicula</u> ; Brighton, [Sussex, England ?]

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 MISCELLANEOUS
 

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S	1422	Florence, Italy
S	1423	Flushing Bay, Long Island, New York; infusoria; G.B. Strong
S	1424	(No locality)
S	1425	Oyster mud
S	1426	J. Frey
S	1427	[No information]
	1428	[No information]
S	1429	Greenport, Long Island, New York
S	1430	Providence, Rhode Island; thru glass
S	1431	Monterey, California
S	1432	S. Wells
S	1433	Urea; Dr. Hammond
S	1434	Scales of the <u>Podura</u> ; Dr. Cole; imported by Widdefield
S	1435	Fossil infusoria; test used by Amici
S	1436	[No information]
S	1437	Siliceous freshwater deposit containing <u>Cyclops</u> , etc.; France; E.J. Quekett
S	1438	Oolite; Germany; E.J. Quekett
S P	1439	Fossil infusoria; American; locality ?
S P	1440	Greenport, New York; covered with blown glass
S P	1441	<u>Navicula amicii</u> ; resolved March 27 fairly over whole surface, several times
S P	1442	Amici's test
S P	1443	Croton Water, New York
S P	1444	Rockaway, Long Island, New York
S P	1445	Stonington, Connecticut



- S P 1446 Croton Water, New York; Navicula Spencerii; first one resolved by me
- S P 1447 Spicula of Cydonium Mulleri; England; F
- S P 1448 Spicula of Tetheria lyncierium [?]; England; E
- S P 1449 Spicules of Alcyonia [= Alcyonium] patera
- S P 1450 River Humber, England
- S P 1451 Navicula Amicii; very difficult
- S P 1452 Halifax, Nova Scotia
- S P 1453 Stonington, Connecticut
- S P 1454 Hudson River, New York; Navicula - diagonals present
- S P 1455 Stonington, Connecticut; Navicula angularis - shows four sets of lines, longitudinals finest
- S P 1456 Greenport, Long Island, New York; Navicula with diagonals
- S P 1457 [No locality]; Navicula with three sets of lines
- S P 1458 Podura
- S P 1459 Podura
- S P 1460 Brassica; curious [= Pontia brassicae ?]
- S P [1461] Scales of Podura; [No number was found on this slide; it was given the number 1461 because it was found between numbers 1460 and 1462.]
- S P 1462 Scales of Podura plumbea; P.B.G. [P.B. Goddard]
- S P 1463 Papillon du Chou; Plumules du Grand Brassicaine [?]
- S P 1464 Pontia brassicae scales; test; large white cabbage butterfly; Microscopic Cabinet, p. 148; Chevalier, Microscopy, p. 176

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DIATOMS FROM WILLIAM GREGORY

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S	P	C	1465	A	Gregory; C-1; registered by R.C. Greenleaf
S	P	C	1466	B	[Gregory]; C-3; registered by R.C. Greenleaf
S	P	C	1467	C	[Gregory]; C-5; registered by R.C. Greenleaf
S	P	C	1468	D	[Gregory]; C-6
S	P	C	1469	E	Gregory; 5-2; registered by C. Stodder
S	P	C	1470	F	Glenshira Sand, Scotland; Gregory; F-2; registered by R.C. Greenleaf; "This is a very rich slide."
S	P	C	1471	G	Gregory; M.D. 57
S	P	C	1472	H	[Gregory]; (9 - 10', 24)
S	P	C	1473	I	Gregory; 4d (1) 5'
S	P	C	1474	J	Gregory; 5d (3) 5'
S	P	C	1475	K	Gregory; 20d, (3) 10
S		C	1476	L	Gregory

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 MISCELLANEOUS AMERICAN DIATOMS
 

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- C 1477 1a Neuse River, North Carolina
- C 1478 1b Neuse River, North Carolina
- C 1479 2a Mystic Pond, Connecticut
- C 1480 2b Mystic Pond, Connecticut
- C 1481 3a Hull Inlet, Massachusetts
- C 1482 4a Forest Hill [ = Forest Hills, New York ?]; peat
- C 1483 5a St. George River, Miami, Florida
- C 1484 6 St. George River, Miami, Florida
- C 1485 7a Bottom of Bemis Lake, New Hampshire; C.G. Bush

[Slides which would have been numbered 1486 - 1514 are missing and no information is available on what they might have contained.]

- C 1515 8 Bodega [Bay?], Southern California; John S. Newberry
- C 1516 9 Cannon Creek, Pit River, California; John S. Newberry
- C 1517 10 Pit River, California; John S. Newberry
- C 1518 12 Pit River, California; John S. Newberry; 20 miles above Cannon Creek
- C 1519 14 Plain about Klamath Lake, Oregon; John S. Newberry
- C 1520 25 Hills at Dalles, Oregon; John S. Newberry
- C 1521 26 Cascade Mountains, [Oregon]; mud of lakes; John S. Newberry
- C 1522 26 [No locality given]; John S. Newberry
- C 1523 30 Klamath Lake, Oregon; John S. Newberry
- C 1524 32 Shoalwater Bay [= entrance to Willapa Bay ?], [Washington]; John S. Newberry
- C 1525 33 Shoalwater Bay [= entrance to Willapa Bay ?], [Washington]; John S. Newberry
- C 1526 34 Rhett Lake, California; John S. Newberry

S\* P C 1527 A Bodega [Bay?], California; no. 1



S	P	C	1528	B	Bermuda* tripoli; with KO
S	P	C	1529	C	Richmond, Virginia; light portion
S	P	C	1530	D	Piscataway, Maryland
S	P	C	1531	E	Altamaha River, Georgia; ricefields
S	P	C	1532	F	West Point, New York; fossil fluviatile diatoms
S	P	C	1533	G	Blue Hill Pond, Maine
S	P	C	1534	H	Near Mount Holly, New Jersey; Cretaceous rocks; greensand and other casts of Polythalamia
S	P	C	1535	I	Enterprise, Florida; 200 miles from mouth of St. John's River, on roots of <u>Pistia</u>
S	P	C	1536	J	Monterey, California; lower stratum
S	P	C	1537	K	North Lakehouse, San Francisco, California

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\* See note on page 154.

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MISCELLANEOUS

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S	1538	Shells from washings of coral
S	1539	Phillipine Islands
S	1540	Havannah [Havana], Cuba
S	1541	Isle of Delos, Aegean Sea
S	1542	From West Indian sponge

[Slides which would have been numbered 1543 - 1566 are missing and no information is available on what they might have contained.]

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OCEANIC SOUNDINGS

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C 1567	Lat. 37° 05' N, Long. 14° 30' W; 140 fathoms; [Eastern North Atlantic]
C 1568	Lat. 44° 41' N, Long. 24° 35' W; 1360 fathoms; [West European Basin, North Atlantic]
C 1569	Lat. 44° 41' N, Long. 24° 35' W; 1360 fathoms; [West European Basin, North Atlantic]
C 1570	Lat. 44° 41' N, Long. 24° 35' W; 1360 fathoms; [West European Basin, North Atlantic]
C 1571	Lat. 44° 41' N, Long. 24° 35' W; 1360 fathoms; [West European Basin, North Atlantic]
C 1572	Lat. 49° 56' N, Long. 13° 13' 45" W; 1580 fathoms; [West European Basin, North Atlantic]
C 1573	Lat. 49° 56' N, Long. 13° 13' 45" W; 1580 fathoms; [West European Basin, North Atlantic]
C 1574	Lat. 49° 56' N, Long. 13° 13' 45" W; 1580 fathoms; [West European Basin, North Atlantic]
C 1575	Lat. 54° 17' N, Long. 22° 33' W; 2000 fathoms; [West European Basin, North Atlantic]
C 1576	Lat. 54° 17' N, Long. 22° 33' W; 2000 fathoms; [West European Basin, North Atlantic]
C 1577	[No information on locality]; 1300 fathoms
C 1578	Lat. 44° 41' N, Long. 24° 35' W; 1360 fathoms; [West European Basin, North Atlantic]
C 1579	Lat. 44° 41' N, Long. 24° 35' W; 1360 fathoms; [West European Basin, North Atlantic]
C 1580	Lat. 0° 29' 58" N, Long. 45° 56' 35" W; 33 fathoms; [Off mouth of Amazon River, coast of Brazil]
C 1581	Lat. 13° S, Long. 162° E; 2150 fathoms; [Coral Sea]
C 1581-1/2	Lat. 13° S, Long. 162° E; 2150 fathoms, [Coral Sea]
C 1582	Lat. 0° 21' N, Long. 23° 28' 52" W; 2280 fathoms; Atlantic Ocean; Ship <u>Villa de Bilbao</u> ; [Equatorial Counter Current near MidAtlantic Ridge]
C 1583	Lat. 0° 21' N, Long. 23° 28' 52" W; 2280 fathoms; Atlantic Ocean; Ship <u>Villa de Bilbao</u> ; [Equatorial Counter Current near MidAtlantic Ridge]



- C 1584 Lat. 0° 21' N, Long. 23° 28' 52" W; 2280 fathoms;  
Atlantic Ocean; Ship Villa de Bilbao; [Equatorial  
Counter Current near MidAtlantic Ridge]
- C 1585 Deep Sea Soundings
- C 1586 Lat. 0° 21' N, Long. 23° 28' 52" W; 2280 fathoms;  
Atlantic Ocean, Ship Villa de Bilbao; [Equatorial  
Counter Current near MidAtlantic Ridge]
- C 1587 Lat. 0° 21' N, Long. 23° 28' 52" W; 2280 fathoms;  
Atlantic Ocean, Ship Villa de Bilbao; [Equatorial  
Counter Current near MidAtlantic Ridge]

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PERRY'S JAPAN EXPEDITION

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- C 1588 A No. 31A; [no specific locality given]
- C 1589 B No. 31B; [no specific locality given]; Commo. Matthew C. Perry
- C 1590 C Card A, washed from a Sargassum; [no specific locality given]; Commo. Matthew C. Perry
- C 1591 D Juddo Bay; Commo. Matthew C. Perry
- C 1592 E Juddo Bay, Commo. Matthew C. Perry, No. 24
- C 1593 F [No specific locality given]; Commo. Matthew C. Perry
- C 1594 G Juddo Bay; May 11, 1855; sent to Judge A.S. Johnson
- C 1595 H Southern side of Japan; Commo. Matthew C. Perry

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 VARIOUS SOUNDINGS
 

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C	1596	A	[No locality given]; ocean; 1300 fathoms
C	1597	B	Southwest of Sandwich Islands [= Hawaiian Islands]; 7 fathoms, 3 feet
C	1598	C	Pontiae [?] [= Pontine Islands, Tyrrhenian Sea ?]; 150 fathoms
C	1599	D	Straits of Sangas; <u>Hancock</u> no. 1; rinsings; 29 fathoms
C	1600	E	Agulhas Bank, South Africa; 70 fathoms; light portions obtained by floating
C	1601	F	Edge of Agulhas Bank, South Africa; 70 fathoms; natural state
C	1602	G	Key Biscayne, Florida; 2-1/2 fathoms
C	1603	H	[Gulf Stream ?]; Position 15; washed from soundings; 19 fathoms
C	1604	I	Gulf Stream; Position 9; 100 fathoms
C	1605	J	[No locality given]; 1800 fathoms
C	1606	K	Lat. 0° 32' [See #1580 and #1582; same?]
C	1607	L	Coast of Georgia, Inland Passage; 60 miles from Jacksonville, Florida
C	1608	M	Lat. 38° 04' 40" N, Long. 73° 56' 47" W; 90 fathoms; [Gulf Stream; north Atlantic coast of Maryland]
C	1609	N	Lat. 40° 59' 55" N, Long. 71° 48' 55" W; 19 fathoms; [Gulf Stream]
C	1610	O	Southeast of Cape Henlopen, Lat. 38° 04' 40" N, Long. 73° 56' 47" W; soundings H. no. 1; 90 fathoms; by levigation
C	1611	P	Southeast of Cape Henlopen; Lat. 38° 40' 40" N, Long. 75° 0' 30" W; 10 fathoms; soundings H. no. 2
C	1612	Q	Southeast of Cape Henlopen; Lat. 38° 29' 56" N, Long. 74° 38' 04" W; 20 fathoms; soundings H. no. 17
C	1613	R	Southeast of Cape Henlopen; Lat. 38° 09' 23" N, Long. 74° 04' 05" W; 50 fathoms; soundings H. no. 67; by levigation
C	1614	S	[Southeast of Cape Henlopen]; Lat. 38° 41' N, Long. 74° 06' W; 20 fathoms; soundings G. no. 27; by levigation

- C 1615 T [Southeast of Cape Henlopen]; Lat.  $39^{\circ} 28' 35''$  N;  
Long.  $72^{\circ} 44' 35''$  W; 50 fathoms; soundings G. no. 31;  
by levigation
- C 1616 U St. Georges Bank [Off the coast of Massachusetts]
- C 1617 V St. Georges Bank [Off the coast of Massachusetts]
- C 1618 W St. Georges Bank [Off the coast of Massachusetts]
- C 1619 X Near Great Point Light, Nantucket, Massachusetts
- C 1620 Y Near Great Point Light, Nantucket, Massachusetts
- C 1621 Z Near New South Shoal, off Nantucket, Massachusetts
- C 1622 A' Soundings off Nantucket, Massachusetts



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FOSSIL INFUSORIA

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- C 1623 B' New York City, New York; excavation for building at corner of Wall and Water Streets; infusoria
- C 1624 C' New York City, New York; excavation for building at corner of Wall and Water Streets; infusoria
- C 1625 D' [No locality given]; silicified polythalamia
- C 1626 E' Charleston, South Carolina; 100 feet under -
- C 1627 F' Charleston, South Carolina; 135 feet below
- C 1628 G' Fort Wachita [on Washita or Ouachita River in Arkansas or Louisiana]; polythalamia; blue slaty clay
- C 1629 H' Fort Wachita [on Washita or Ouachita River in Arkansas or Louisiana]; polythalamia
- C 1630 I' Derry, [New Hampshire]; fossil infusoria; partly dissolved by hydrochloric acid
- C 1631 J' Derry, [New Hampshire]; fossil infusoria; partly dissolved by hydrochloric acid
- C 1632 K' Wrentham, Massachusetts; fossil infusoria
- C 1633 L' Bermuda\*
- C 1634 M' Bermuda\*
- C 1635 N' Bermuda\*
- C 1636 O' Bermuda\*
- C 1637 P' Unknown locality; partly dissolved in hydrofluoric acid
- C 1638 Q' Unknown locality
- C 1639 R' South Carolina; polythalamia
- C 1640 S' Mud of Kemble's Marsh; polythalamia
- C 1641 T' Levant [= eastern Mediterranean Sea] mud
- C 1642 U' Levant [= eastern Mediterranean Sea] mud
- C 1643 V' Levant [= eastern Mediterranean Sea] mud
- C 1644 W' Levant [= eastern Mediterranean Sea] mud
- C 1645 X' Boston, Lincolnshire, England; fossil Lagena and fossil polythalamia
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\* See note on page 154.

- C 1646 Y' Boston, Lincolnshire, England; fossil Lagena and fossil Polythalamia
- C 1647 Z' England; fossil animals contained in a substance called "floating brick"
- C 1648 A" Thames, Gravesend, England
- C 1649 B" Wye, Maryland
- C 1650 C" Wye, Maryland
- C 1651 D" Wye, Maryland
- C 1652 E" Wye, Maryland; fossil polycistinae
- C 1653 F" Wye, Maryland
- C 1654 G" Calvert County, Maryland
- C 1655 H" Petersburg, Virginia
- C 1656 I" Petersburg, Virginia
- C 1657 J" Petersburg, Virginia; 50 feet
- C 1658 K" Petersburg, Virginia
- C 1659 L" Petersburg, Virginia
- C 1660 M" Petersburg, Virginia
- C 1661 N" Petersburg, Virginia
- C 1662 O" Petersburg, Virginia
- C 1663 P" Petersburg, Virginia
- C 1664 Q" Richmond, Virginia
- C 1665 R" Richmond, Virginia; thick card
- C 1666 S" Richmond, Virginia
- C 1667 T" Richmond, Virginia
- C 1668 U" Richmond, Virginia
- C 1669 V" Richmond, Virginia; infusoria; behind Monument Church; Polythalamia; upper part of stratum
- C 1670 W" Richmond, Virginia; third ravine behind Medical College
- C 1671 X" Richmond, Virginia
- C 1672 Y" Richmond, Virginia

	C	1673	Z"	Richmond, Virginia; upper part of stratum
	C	1674	AA	Richmond, Virginia
S	C	1675	BB	Richmond, Virginia
S	C	1676	CC	Richmond, Virginia
S	C	1677	DD	Richmond, Virginia; disc from infusorial stratum
S	C	1678	EE	[No locality given]
S	C	1679	FF	Piscataway, Maryland
S*	C	1680	GG	Piscataway, Maryland
S	C	1681	HH	Piscataway, Maryland
S*	C	1682	II	Petersburg, Virginia
S*	C	1683	JJ	Pamunkey River, Virginia; Miocene
S*	C	1684	KK	Hollis Cliffs, Virginia
S	C	1685	LL	Brown's Mills, Virginia; fossil
S	C	1686	MM	Meherrin River, Virginia
S	C	1687	NN	Meherrin River, Virginia
S	C	1688	OO	Stratford Cliffs, Virginia
S	C	1689	PP	Stratford Cliffs, Virginia
S	C	1690	QQ	Rappahannock Cliffs, Virginia
S	C	1691	RR	Rappahannock Cliffs, Virginia
S	C	1692	SS	Rappahannock Cliffs, Virginia; Dr. Chilton
S	C	1693	TT	Rappahannock Cliffs, Virginia

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FREMONT'S INFUSORIA

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C	1695	A	Oregon; fossil infusoria
C	1696	B	Oregon; fossil infusoria
C	1697	C	Oregon
C	1698	D	Oregon; fossil infusoria
C	1699	E	Oregon; fossil infusoria
C	1700	F	[No locality given]
C	1701	G	Oregon; fossil infusoria
C	1702	H	[No locality given]; polythalamia



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MARINE DIATOMS

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C	1703	1a	St. Georges Bank, [Off Massachusetts]; from stomach of <u>Botryodactyla grandis</u>
C	1704	1b	St. Georges Bank, [Off Massachusetts]; from stomach of <u>Botryodactyla grandis</u>
C	1705	1c	St. Georges Bank, [Off Massachusetts]; from stomach of <u>Botryodactyla grandis</u>
C	1706	1d	St. Georges Bank, [Off Massachusetts]; from stomach of <u>Botryodactyla grandis</u>
C	1707	1e	St. Georges Bank, [Off Massachusetts]; from stomach of <u>Botryodactyla grandis</u>
C	1708	2a	Fort Hamilton, New York
C	1709	3a	Rockaway, New York
C	1710	4a	Stonington, Connecticut
C	1711	5a	Edgartown Harbor, Martha's Vineyard, Massachusetts; channel midway between inner and outer buoys
C	1712	5b	Edgartown Harbor, Martha's Vineyard, Massachusetts; middle buoy
C	1713	5c	Edgartown Harbor, Martha's Vineyard, Massachusetts
C	1714	5d	Edgartown Harbor, Martha's Vineyard, Massachusetts
C	1715	5e	Edgartown Harbor, Martha's Vineyard, Massachusetts
C	1716	5f	Edgartown Harbor, Martha's Vineyard, Massachusetts
C	1717	5g	Edgartown Harbor, Martha's Vineyard, Massachusetts
C	1718	5h	Edgartown, Martha's Vineyard, Massachusetts
C	1719	5i	Edgartown Harbor, Martha's Vineyard, Massachusetts
C	1720	6a	Outer buoy off Cape Poge, Martha's Vineyard, Massachusetts
C	1721	6b	Cape Poge, Martha's Vineyard, Massachusetts
C	1722	6c	Cape Poge, Martha's Vineyard, Massachusetts
C	1723	6d	Cape Poge, Martha's Vineyard, Massachusetts
C	1724	6e	Cape Poge, Martha's Vineyard, Massachusetts
C	1725	6f	Cape Poge, Martha's Vineyard, Massachusetts

- C 1726 6g Cape Poge, Martha's Vineyard, Massachusetts; outer buoy
- C 1727 6h Cape Poge, Martha's Vineyard, Massachusetts
- C 1728 6i Cape Poge, Martha's Vineyard, Massachusetts; outer buoy
- C 1729 6j Cape Poge, Martha's Vineyard, Massachusetts; outer buoy
- C 1730 6k Cape Poge, Martha's Vineyard, Massachusetts
- C 1731 6l Cape Poge, Martha's Vineyard, Massachusetts; outer buoy
- C 1732 6m Cape Poge, Martha's Vineyard, Massachusetts; outer buoy
- C 1733 6n Cape Poge, Martha's Vineyard, Massachusetts; outer buoy
- C 1734 6o Cape Poge, Martha's Vineyard, Massachusetts; outer buoy
- C 1735 6p Cape Poge, Martha's Vineyard, Massachusetts
- C 1736 6q Cape Poge, Martha's Vineyard, Massachusetts
- C 1737 7a Rio de Janeiro, Brazil
- C 1738 7b Rio de Janeiro, Brazil; off Flores [near Recife?]
- C 1739 8a Montevideo, Uruguay; spiculae and a few diatoms in mud
- C 1740 9a Buena Vista, Mexico
- C 1741 10a East Indies; anchor mud
- C 1742 11a Assistance Bay, Cornwallis Island, Northwest Territories, Canada
- C 1743 12a Oregon
- C 1744 13a Gulf Stream
- C 1745 14a St. Julien [?], South America
- C 1746 15a Boston Harbor, Massachusetts; Dr. Durkee
- C 1747 16a [No geographical locality given]; marsh near foundry
- C 1748 17a Locality unknown; marine diatoms
- C 1749 17b Locality unknown; marine diatoms

C 1750 18a Locality unknown

C 1751 18b Locality unknown

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CHALK SERIES

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S	C	1752	A	England; chalk
S	C	1753	B	[No locality given]; chalk
S	C	1754	C	[No locality given]; chalk
S	P	C	1755	D [No locality given]; chalk
S	C	1756	E	Dover, England; chalk
S	P	C	1757	F Dover, England; chalk; [Note by Charles Stodder:] "This catalogue cannot belong to this slide."; cleaned
S	P	C	1758	G Chalk
	C	1759	H	Dover, Sussex, England; chalk
S	C	1760	I	[No locality given]; chalk from interior of a flint; silicified polythalamia from Dr. Mantell
S	C	1761	J	Menton, France; chalk
S	C	1762	K	Menton, France; chalk
	C	1763	L	Oran, Algeria, Africa; chalk, marl; Ehrenberg
	C	1764	M	Oran, Algeria, Africa; chalk, marl; Ehrenberg



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MISCELLANEOUS ANIMALS AND MINERALS

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S	1765	Singapore, Malaya; <u>Melitodes ochracea</u>
S	1766	Pedicellaria suckers [?] from <u>Echinus</u>
S	1767	Spicules from <u>Holothuria</u>
S	1768	Claws of <u>Astrophyton</u>
	1769	[No information available]
	1770	[No information available]
	1771	[No information available]
	1772	[No information available]
	1773	[No information available]
S	1774	Zoolite
S	1775	Carbonate of lime
S	1776	Quartz crystals found in mica
S	1777	Murescide, $\text{CrN}_5\text{H}_6\text{O}_8$ ; Mr. Marshall
S	1778	<u>Factitious avenurius</u> ; E.J. Quekett
S P	1779	Setworth [?] marble; Luccesi [?]
	1780	[No information available]

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 SMITHSONIAN CONTRIBUTION'S SERIES
 

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S	P	C	1781	A	Greenport, New York; figure 37
S	P	C	1782	B	St. Georges Bank [Off Massachusetts]; from stomach of <u>Botryodactyla grandis</u> ; acted on by acid; figures 21-22
S	P	C	1783	C	Hudson River, New York; figure 8a
S		C	1784	D	Garden Key, Florida; figures 9, 10; J.E. Gavit
S	P	C	1785	E	Halifax, Nova Scotia; washed from an <u>Agarum</u>
S	P	C	1786	F	Ballast Point, Tampa Bay, Florida; figure 25
S	P	C	1787	G	Ballast Point, Tampa Bay, Florida; washings of sponge-sand; no. 3; Dr. VanArsdale
S	P	C	1788	H	Ballast Point, Tampa Bay, Florida; no. 5; AL
S	P	C	1789	I	Duval's Creek, Florida
S	P	C	1790	J	[No locality given]; figures 23 and 24
S		C	1791	K	Petersburg, Virginia
S		C	1792	L	Richmond, Virginia; figures 18 and 30
S	P	C	1793	M	Niagara Falls, New York
S	P	C	1794	N	Halifax, Nova Scotia; figure 15
S	P	C	1795	O	Halifax, Nova Scotia; washed from <u>Laminaria</u> ; figure 29
S	P	C	1796	P	Ilfracombe, England; figure 20

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HUDSON RIVER SERIES

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C	1797	A	Hudson River, New York
C	1798	B	Hudson River, New York
C	1799	C	Hudson River, West Point, New York
C	1800	D	Hudson River, New York; near West Point
C	1801	E	Hudson River, New York
C	1802	F	Hudson River, New York; near West Point
C	1803	G	Hudson River, New York; near West Point
C	1804	H	Hudson River, New York
C	1805	I	Hudson River, New York
C	1806	J	Hudson River, New York
C	1807	K	Hudson River, New York
C	1808	L	Hudson River, New York
C	1809	M	Hudson River, New York
C	1810	N	Hudson River, New York
C	1811	O	Hudson River, New York
C	1812	P	Hudson River, New York

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 DESMIDIACEAE AND OTHER CHLOROPHYTES
 

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C	1813	A	Westmoreland, England
C	1814	B	Westmoreland, England
C	1815	C	North Wales
C	1816	D	Wales
C	1817	E	North Wales
C	1818	F	[No locality given]
C	1819	G	[No locality given]
C	1820	H	Wales
C	1821	I	Coast of Yorkshire, England
C	1822	J	Dolgelly, Wales
C	1823	K	West Point, New York
C	1824	L	West Point, New York
		M	[This letter was not used in this series.]
C	1825	N	England
C	1826	O	Wales
		P-Q-R	[The Catalogue notes slides P, Q and R as missing but the bear no numbers in this series.]
C	1827	S	No locality
C	1828	T	Wales
C	1829	U	Wales
C	1830	V	No locality
C	1831	W	North Wales
C	1832	X	Wales
C	1833	Y	England
C	1834	Z	Wales

[Slides which would have been numbered 1835-1846 are missing and no information is available on what they might have contained.]



- S\*        1847        West Point, New York; Coleochaete scutata Bréb.;  
J.W. Bailey, 1846
- S\*        1848        West Point, New York; Coleochaete scutata Bréb.;  
cum fructa; J.W. Bailey, 1846
- S\*        1849        West Point, New York; Coleochaete scutata Bréb.;  
cum fructa; J.W. Bailey, 1846
- S\*        1850        West Point, New York; Coleochaete scutata Bréb.;  
cum fructa (fine); J.W. Bailey, 1846

[Slides which would have been numbered 1851-1858 are missing and no information is available on what they might have contained.]

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SOUTHEASTERN UNITED STATES SERIES

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S	C	1859	1a	Bridge at St. Augustine, Florida
S	C	1860	1b	St. Sebastian River, near St. Augustine, Florida
S	C	1861	1c	Bridge at St. Augustine, Florida
S	C	1862	1d	Bridge over St. Sebastian River, St. Augustine, Florida
S	C	1863	1e	Anastasia Island, near St. Augustine, Florida
S	C	1864	1f	St. Augustine, Florida
S	C	1865	1g	Bridge near St. Augustine, Florida; not levigated
S	C	1866	1h	Bridge near St. Augustine, Florida
S	C	1867	1i	Near St. Augustine, Florida
S	C	1868	1j	Bridge at St. Augustine, Florida
S	C	1869	1k	Bridge at St. Augustine, Florida
S	C	1870	1l	Bridge at St. Augustine, Florida
S	C	1871	1m	St. Sebastian River near St. Augustine, Florida
	C	1872		Duval's Creek, Enterprise, Florida
	C	1873		Duval's Creek, Enterprise, Florida
	C	1874		Duval's Creek, Enterprise, Florida
	C	1875		Duval's Creek, Enterprise, Florida
	C	1876		Duval's Creek, Enterprise, Florida
	C	1877		Duval's Creek, Enterprise, Florida
	C	1878		Duval's Creek, Enterprise, Florida
S	C	1879	3a	Coast of Florida; Recent Polythalamia
S*	C	1880	3b	Garden Key, Florida; washed from algae
S	C	1881	3c	Tortugas [= Dry Tortugas, Florida ?]
S	C	1882	3d	Garden Key, Florida
S	C	1883	3e	Inland Passage, Florida; 50 miles from Jacksonville
S	C	1884	3f	Inland Passage, Florida; 60 miles from Jacksonville

S	C	1885	4a	Ballast Point, Tampa Bay, Florida
S	C	1886	4b	Tampa, Florida
S	C	1887	4c	Ballast Point, Tampa, Florida
S	C	1888	4d	Tampa Bay, Florida
S	C	1889	4e	Ballast Point, Tampa Bay, Florida
S	C	1890	4f	Ballast Point, Tampa Bay, Florida
S	C	1891	4g	Ballast Point, Tampa Bay, Florida
S	C	1892	4h	Ballast Point, Tampa Bay, Florida
S	C	1893	4i	Ballast Point, Tampa Bay, Florida
S	C	1894	4j	Ballast Point, Tampa Bay, Florida
S	C	1895	4k	Ballast Point, Tampa Bay, Florida
S	C	1896	4l	Ballast Point, Tampa Bay, Florida
S	C	1897	4m	Tampa, Florida
S	C	1898	4n	Tampa, Florida
S	C	1899	4o	Tampa, Florida; infusorial stratum (ground down)
S	C	1900	4p	Tampa, Florida
S	C	1901	4q	Ballast Point, Tampa Bay, Florida
S	C	1902	4r	Ballast Point, Tampa Bay, Florida
S	C	1903	4s	Ballast Point, Tampa Bay, Florida
S	C	1904	4t	Ballast Point, Tampa Bay, Florida
S	C	1905	4u	Ballast Point, Tampa Bay, Florida
S	C	1906	4v	Ballast Point, Tampa Bay, Florida
	C	1907	4w	Near Tampa, Florida; infusorial stratum
S	C	1908	5a	Picolata, Florida
S	C	1909	5b	Little Hillsborough River, Florida
S	C	1910	5c	Volusia, Florida
S	C	1911	5d	Anastasia Island, Florida
S	C	1912	5e	Cape [Poane ?], [Florida ?]

S	C	1913	5f	Palatka [= Pilatka], Florida
S	C	1914	5g	Demader's [?] Creek, Florida
S	C	1915	6a	Off St. Simon's Island, Georgia
S	C	1916	6b	Hopeton, Georgia; near the Altamaha River
S	C	1917	6c	Opposite Savannah, Georgia; from mud of ricefield ditches
S	C	1918	6d	Ten miles above Savannah, Georgia; ricefields, Dr. Daniels, no. 4
S	C	1919	6e	Ten miles above Savannah, Georgia; ricefields
S	C	1920	6f	Ten miles above Savannah, Georgia; ricefields; J.W. Bailey
S	C	1921	6g	Ten miles above Savannah, Georgia; ricefields; no. 6
S	C	1922	6h	Ten miles above Savannah, Georgia; ricefields; no. 9
S	C	1923	6i	Ten miles above Savannah, Georgia; ricefields; Dr. Daniels, no. 1
S	C	1924	6j	Fort Jackson, near Savannah, Georgia
S	C	1925	6k	[Ogeechee River, Bryan County, Georgia]; mud from ricefields near Col. McAllister's; secondary levigation
S	C	1926	7a	Sullivan's Sound, South Carolina; easy
S	C	1927	7b	Grahamsville, South Carolina
S	C	1928	8a	Wilmington, North Carolina; ricefields; 2 <sup>+</sup> feet below surface
S	C	1929	9a	Charleston, South Carolina; mud
S*	C	1930	9b	Ashley River, six miles from Charleston, South Carolina
S	C	1931	9c	Charleston, South Carolina
S	C	1932	9d	Charleston, South Carolina; mud
S	C	1933	9e	Charleston, South Carolina
S	C	1934	9f	Charleston, South Carolina
	C	1935	9g	Charleston, South Carolina
S	C	1936	10a	Centreport, Alabama
S	C	1937	10b	Centreport, Alabama
S*	C	1938	10c	Centreport, Alabama



S*	C	1939	10d	Alabama River, Centreport, Alabama; 175 miles below Montgomery
S	C	1940	10e	Alabama River, Centreport, Alabama
S	C	1941	11a	New Orleans, Louisiana
S	C	1942	12a	New Braunfels, Texas
S	C	1943	13a	Missouri River near St. Louis, Missouri
S	C	1944	14a	Jackson, Mississippi
S	C	1945	15a	Fort Monroe, Virginia; artesian well, 48-53 foot depth; no. 24
S	C	1946	15b	Mud from James River, City Point, Virginia
	C	1947		Coal River, Virginia
S	C	1948		Williamsburg, Virginia
S	C	1949	16a	Old Point Comfort, Virginia; ditch
S	C	1950	16b	Old Point Comfort, Virginia; no. 25; 53-56 feet
S	C	1951	16c	Old Point Comfort, Virginia; no. 24; 48-53 feet
S	C	1952	16d	Old Point Comfort, Virginia; no. 27; Polythalamia
S	C	1953	16e	Old Point Comfort, Virginia; no. 31; depth of 98-105 feet
S	C	1954	16f	Old Point Comfort, Virginia; 56-68 feet
S	C	1955	16g	Old Point Comfort, Virginia; no. 28; 84-89 feet
S	C	1956	16h	Old Point Comfort, Virginia; 53-56 feet
S	C	1957	16i	Old Point Comfort, Virginia; no. 28; 84-89 feet

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 NORTHEASTERN AND NORTHCENTRAL UNITED STATES SERIES
 

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S	C	1958	17a	Traverse Bay, Michigan
S	C	1959	17b	Traverse Bay, Michigan
S	C	1960	17c	Traverse Bay, Michigan
S	C	1961	17d	Oakland County, Michigan; Recent infusoria
S	C	1962	17e	Oakland County, Michigan; Lake Elizabeth
S	C	1963	17f	Oakland County, Michigan; no. 4
S	C	1964	17g	Oakland County, Michigan; no. 3
S	C	1965	17h	Oakland County, Michigan; Recent infusoria; F.F.
S	C	1966	17i	Oakland County, Michigan; Recent infusoria
S	C	1967	17j	Mackinaw, Michigan
S	C	1968	17k	Oakland County, Michigan; no. 5
	C	1969	18a	Morris County, New Jersey
S	C	1970	18b	Mapleton, New Jersey; Dr. Torrey; J.S.S.
S	C	1971	18c	Burlington, New Jersey; from mud of Delaware River
S	C	1972	19a	Cleveland, Ohio
S	C	1973	19b	Cleveland, Ohio; pier
S*	C	1974	20a	Rockaway, New York
S	C	1975	20b	Rockaway, New York
S	C	1976	20c	Rockaway, New York
S	C	1977	20d	Rockaway, New York
S	C	1978	20e	Rockaway, New York
S	C	1979	20f	Rockaway, New York
S	C	1980	20g	Rockaway, New York
S	C	1981	20h	Rockaway, New York
S	C	1982	21a	Hudson River, New York
S	C	1983	21b	Hudson River, New York

S	C	1984	21c	Hudson River, New York
S	C	1985	21d	Hudson River, New York
S	C	1986	21e	Hudson River, New York; from mud
S	C	1987	21f	Hudson River, New York
S	C	1988	21g	Hudson River, New York
S	C	1989	21h	Hudson River, New York
S	C	1990	21i	Hudson River, New York
S	C	1991	21j	Hudson River, New York
S	C	1992	21k	New York, New York; mud of docks
S	C	1993	21l	Hudson River, Hyde Park, New York; mud
S	C	1994	21m	Hudson River, New York
S	C	1995	21n	Hudson River, New York
S	C	1996	22a	Greenport, New York
S	C	1997	22b	Greenport, New York
S	C	1998	22c	Greenport, New York
S	C	1999	22d	Greenport, New York
S	C	2000	22e	Greenport, New York
S	C	2001	22f	Greenport, New York
S	C	2002	22g	Greenport, Long Island, New York; salt marsh
S	C	2003	22h	Greenport, Long Island, New York
S	C	2004	22i	Greenport, Long Island, New York
S	C	2005	22j	Greenport, Long Island, New York
S	C	2006	23a	West Point, New York
S	C	2007	23b	Catskill Pond, New York
S	C	2008	23c	Round Pond near West Point, New York; Recent infusoria
S	C	2009	23d	Mill Pond, West Point, New York
S	C	2010	23e	Mill Pond, West Point, New York
S	C	2011	23f	Mill Pond, West Point, New York



S	C	2012	23g	West Point, New York
S	C	2013	23h	West Point, New York
S	C	2014	23i	West Point, New York
S	C	2015	23j	Round Pond near West Point, New York
S	C	2016	23k	Mud of Hudson River, West Point, New York; J.W. Bailey
S	C	2017	23l	West Point, New York
S	C	2018	23m	West Point, New York; April 11, 1849
S	C	2019	23n	West Point, New York
S	C	2020	23o	West Point, New York
S	C	2021	23p	West Point, New York
S	C	2022	24a	Maidstone, Vermont
S*	C	2023	24b	New Durham and Derry, [New Hampshire]. [Two cover-glasses on a single slide.]
S	C	2024	25a	Near Tarrytown, Westchester County, New York
S	C	2025	25b	Croton, New York
S	C	2026	26a	Derry, New Hampshire
S	C	2027	27a	Cherryfield, Maine; D.B.S. Shaw, Boston
S	C	2028	27b	Blue Hill Pond, Maine; no. 1 and no. 2
S* .P	C	2029	28a	Boston Harbor, Massachusetts. [Paleograph left with slide; no coverglass on slide.]
S* P	C	2030	28b	Boston Harbor, Massachusetts. [Paleograph left with slide; no coverglass on slide.]
S*	C	2031	28c	Boston, Massachusetts
S	C	2032	28d	Boston, Massachusetts
S	C	2033	28e	Boston Harbor, Massachusetts
S	C	2034	28f	Massachusetts Bay, Massachusetts
S	C	2035	28g	Wendell, Massachusetts; Dr. Deane
S	C	2036	28h	Wrentham, Massachusetts; siliceous infusoria acted upon by hydrofluoric acid
S	C	2037	28i	Salem, Massachusetts; Essex Co., New Hampshire Collections



S	C	2038	29a	Stonington, Connecticut
S	C	2039	29b	Stonington, Connecticut
S	C	2040	29c	Stonington, Connecticut
S	C	2041	29d	Stonington, Connecticut
S	C	2042	29e	Stonington, Connecticut
S	C	2043	30a	Providence, Rhode Island
S	C	2044	30b	Providence, Rhode Island
S*	C	2045	30c	Bristol Ferry, Rhode Island; J.W. Bailey, 1846
	C	2046	30d	Bristol Ferry, Rhode Island
S	C	2047	31a	Locality unknown; J.W. Bailey with the regards of A.S. Johnson; April 3, 1853
S	C	2048	31b	Locality unknown
S	C	2049	31c	Locality unknown
S	C	2050	32a	Fort Jackson, Michigan; marine

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BOURGOGNE SERIES

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S	2051	No locality; preparateur J. Bourgogne
S	2052	No locality; preparateur J. Bourgogne
S	2053	Falaise, France; preparateur J. Bourgogne
S	2054	Falaise, France; preparateur J. Bourgogne
S	2055	Cherbourg; France; preparateur J. Bourgogne
S	2056	Dives, France; preparateur J. Bourgogne
S	2057	No locality; preparateur J. Bourgogne
S	2058	No locality; preparateur J. Bourgogne
S	2059	No locality; preparateur J. Bourgogne

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 FOREIGN DIATOMS
 

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S	C	2060	1a	River Humber, England; adjoining salt marsh ditches
S	C	2061	1b	River Humber, England; Recent infusoria
S	C	2062	1c	Avon River near Bristol, England
S	C	2063	1d	England
S	C	2064	1e	Fleetwood, England
S	C	2065	1f	Ilfracombe, England
S	C	2066	1g	Ilfracombe, England
S	C	2067	1h	Ilfracombe, England
S	C	2068	1i	Ilfracombe, England; boiled in nitric acid
S	C	2069	1j	Near London, England; in flint; from E.J. Quekett
S	C	2070	1m	Anglesea, Wales
S	C	2071	1n	North Wales
S	C	2072	1o	North Wales
S	C	2073	1p	Dolgelly, Wales
S	C	2074	2a	Nova Scotia; Dr. Leidy
S	C	2075	2b	Nova Scotia; O. Mason
S	C	2076	2c	Earlton, County of Colchester, Nova Scotia; J.W. Dawson
S	C	2077	2d	Halifax, Nova Scotia; washed from an <u>Agarum</u> ; not cleaned
S	C	2078	2e	Halifax, Nova Scotia
S	C	2079	2f	Halifax, Nova Scotia
S	C	2080	2g	Halifax, Nova Scotia; This has been ignited; spines of ?
S	C	2081	2h	Nova Scotia; O. Mason
S	C	2082	2i	Halifax, Nova Scotia
S	C	2083	3a	Locality unknown
S	C	2084	3b	Locality unknown
S	C	2085	3c	Locality unknown

S	C	2086	3d	Locality unknown
S	C	2087	3e	Locality unknown; mud on oysters
S	C	2088	3f	Locality unknown
S	C	2089	3g	Locality unknown
S	C	2090	3h	Locality unknown
S	C	2091	3i	Locality unknown
S	C	2092	3j	Locality unknown; [four coverglasses on slide]
S	C	2093	3k	Locality unknown
S	C	2094	3l	Locality unknown
S	C	2095	3m	Locality unknown
S	C	2096	3n	Locality unknown; metallic lustre from a daguerrotypist
S	C	2097	3o	Locality unknown
S	C	2098	3p	Locality unknown; on <u>Gracilaria erecta</u> ; on a specimen from W. Harvey
S	C	2099	3q	Locality unknown; acted on by hydrofluoric acid
S	C	2100	3r	Locality unknown
S	C	2101	3s	Locality unknown
	C	2102	4a	Mud from St. Helena
	C	2103	4b	Mud from St. Helena
	C	2104	4c	Mud from St. Helena
	C	2105	4d	Mud from St. Helena
	C	2106	5a	Jamaica, West Indies
	C	2107	5b	Port Royal, Jamaica, West Indies
	C	2108	5c	Port Royal, Jamaica, West Indies
	C	2109	6a	Rio de Janeiro, Brazil; outer harbor
	C	2110	6b	Rio de Janeiro, Brazil
	C	2111	7a	Malta
	C	2112	7b	Italy; Crystal Palace, New York [?]
	C	2113	7c	Adriatic Sea



- C 2114 8a In mud from Bombay, India
- C 2115 9a Cape of Good Hope, South Africa
- C 2116 10a Saltillo, Mexico
- C 2117 11a Tripoli de Boheme [Czechoslovakia]
- S C 2118 11b Franzensbad, Bohemia [Czechoslovakia]; Ehrenberg
- C 2118-1/2 11c Franzensbad, [Czechoslovakia]; kieselguhr
- C 2119 12a Oberhohe [?] in Luneburg, Germany; 41 foot thick, bergmehl
- C 2120 12b Bilin, Czechoslovakia; polirscheifer
- C 2121 12c Bilin, Czechoslovakia; artificial kieselguhr
- C 2122 12d Hungary; polirscheifer
- C 2123 12e Bilin, Czechoslovakia; fossil
- C 2124 12f Bilin, Czechoslovakia; tripoli
- C 2125 13a Baltic Sea, Copenhagen, Denmark
- C 2126 14a Near Philadelphia, Asia Minor, Turkey
- C 2127 14b Smyrna, Turkey; infusoria on Cadium flabelliforme
- C 2128 15a Singapore, Malaya
- C 2129 16a Sulu Sea
- C 2130 16b Sulu Sea
- C 2131 17a Cape of Good Hope, South Africa; Exploring Expedition
- C 2132 18a Cook's Straits, New Zealand; infusoria from soil elevated 100 feet
- C 2133 19a Madeira
- C 2134 19b Madeira
- C 2135 19c Madeira
- C 2136 A East Indies
- C 2137 B East Indies
- C 2138 C East Indies
- S C 2139 D East Indies

	C	2140	E	Mindinao, Phillipine Islands; on <u>Aracula</u> [?]
	C	2141	F	Phillipine Islands; on hammer oysters
S*	C	2142	G	Mindinao, Phillipine Islands
S	C	2143	H	Phillipine Islands; mud in <u>Aracula</u> [?]
S*	C	2144	I	Mindinao, Phillipine Islands
S*	C	2145	J	Mindinao, Phillipine Islands
S	C	2146	K	Mindinao, Phillipine Islands
	C	2147	L	Mindinao, Phillipine Islands
S	C	2148	M	Mindinao, Phillipine Islands
	C	2149	N	Mindinao, Phillipine Islands
S	C	2150	O	Mindinao, Phillipine Islands
	C	2151	P	Mindinao, Phillipine Islands
S	C	2152	Q	Mindinao, Phillipine Islands
S	C	2153	R	Sydney, Australia; seaweed
S	C	2154	S	HobartTown, Australia; seaweed
S*	C	2155	T	Port Oxford, Australia
S	C	2156	U	Port Oxford, Australia
	C	2157	V	Southern Australia; diatoms on <u>Agalla</u> [?] <u>rubra</u>
S	C	2158	W	New Zealand; fossil infusoria
S	C	2159	X	New Zealand; on <u>Witella</u>
S	C	2160	Y	Patagonia, South America
	C	2161	Z	Unicorn Bay [?]; Dr. Sutherland
S	C	2162	A'	Tierra del Fuego, South America
	C	2163	B'	Maui, Sandwich Islands [= Hawaiian Islands]; on <u>Sargassum echinocarpum</u>
	C	2164	C'	Hawaii, Sandwich Islands [= Hawaiian Islands]; on <u>Haliseris plagiogramma</u>
	C	2165	D'	Hawaii, Sandwich Islands [=Hawaiian Islands]
	C	2166	E'	Byron's Bay, Hawaii

- C 2167 F' Sandwich Islands [= Hawaiian Islands]
- C 2168 G' Tongatapu [= Tongatabu]
- C 2169 H' Feejee Islands
- C 2170 I' Wilson's Island, Paumotu Group
- C 2171 J' Wilson's Island, Paumotu Group
- C 2172 K' Society Islands
- C 2173 L' Society Islands
- C 2174 M' Tahiti
- C 2175 N' Tahiti
- C 2176 O' Tahiti; washed from an alga
- C 2177 P' Tahiti; on Gelidium
- C 2178 Q' Tahiti; "Climacosphenia = called by B[ailey] australis -  
if it shows lines, then it is monilgera." C.S. Stodder
- C 2179 R' Tahiti
- C 2180 S' Tahiti
- C 2181 T' Tahiti; recorded by thin enamelled card
- C 2182 U' Tahiti; "Rhabdonema murificum all over this slide, very  
large not named in Bailey list. Circles supposed by  
Bailey; registered by C. Stodder."
- C 2183 V' Tahiti
- C 2184 W' Tahiti; "Two frustules attached of Triceratium obtusum  
322/80[?] using top and end of slide for guides.  
C. Stodder."
- C 2185 X Tahiti

REGISTER OF  
DIATOM EXSICCATI COLLECTION

Each serial number is followed in order by  
1) the original taxon determination associated  
with the specimen, 2) the geographical location  
where the specimen was collected, and 3) the  
person who sent the material to J.W. Bailey.



E1	<u>Achnanthes longipes</u> Kütz.	Arromanches (Calvados), France	Lenormand
E3	<u>Achnanthes longipes</u> Ag.	Port (Calvados), France	Lenormand
E4	<u>Achnanthes exilis</u> Kütz.	Falaise, France	Lenormand
E6	<u>Achnanthes intermedia</u> Kütz.	<u>In aqua thermalibus</u> <u>euganics</u>	Lenormand
E7	<u>Achnanthes brevipes</u> Ag.	Port (Calvados), France	Lenormand
E8	<u>Achnanthes minutissima</u> Kütz.	Falaise, France	Lenormand
E9	<u>Achnanthes salina</u> Kütz.	Calvados, France	Brébisson
E10	<u>Achnanthes brevipes</u> Ag.	Cherbourg, France	Lenormand
E11	<u>Achnanthes longipes</u> Ag.	Providence, Rhode Island	J.W. Bailey
E13	<u>Achnanthidium coarctatum</u> Bréb.	Falaise, France	Brébisson
E14	<u>Achnanthidium lanceolatum</u> Bréb.	Falaise, France	Brébisson
E15	<u>Amphipleura inflexa</u> Bréb.	Cherbourg, France	Brébisson
E16	<u>Amphipleura pellucida</u> Kütz.	Falaise, France	Brébisson
E17	<u>Amphipleura rigida</u> Kütz.	Calvados, France	Brébisson
E18	<u>Amphiprora constricta</u> Ehr.	Calvados, France	Brébisson
E19	<u>Amphiprora rivularis</u> Bréb.	Falaise, France	Brébisson
E20	<u>Amphitetras antediluviana</u> Ehr.	[No locality]	Brébisson
E21	<u>Amphora lineolata</u> Kütz.	Goes, Netherlands	Lenormand
E22	<u>Bacillaria paradoxa</u> Ehr.	Bristol, England	G. Dickie
E25	<u>Biddulphia quinquelocularis</u> Kütz.	Iles Chausey, France	Lenormand
E26	<u>Biddulphia pulchella</u> Gray	Iles Chausey, France	Lenormand
E27	<u>Campyloneis spiralis</u> W. Sm.	Falaise, France	Brébisson
E28	<u>Cocconeis thwaitesii</u> W. Sm.	Falaise, France	Brébisson
E29	<u>Cocconeis pediculus</u> Ehr.	Falaise, France	Lenormand
E30	<u>Cocconema cymbiforme</u> Kütz.	Falaise, France	Brébisson

E31	<u>Cocconema cymbiforme</u> [(Kütz.) Ehr. ?]	Falaise, France	Lenormand
E32	<u>Cocconema cistula</u> Ehr.	Falaise, France	Lenormand
E33	<u>Cocconema lanceolatum</u> Ag.	Falaise, France	Brébisson
E34	<u>Colletonema viridulum</u> Bréb.	Falaise, France	Lenormand
E35	<u>Cyclotella kutzingiana</u> Thwaites	Bristol, England	G. Dickie
E36	<u>Cyclotella kutzingiana</u> Thwaites	Falaise, France	Brébisson
E37	<u>Cyclotella operculata</u> (Ag.) Kütz.	Falaise, France	Lenormand
E39	<u>Cymatopleura apiculata</u> W. Sm.	Falaise, France	Brébisson
E40	<u>Cymatopleura elliptica</u> W. Sm.	Falaise, France	Brébisson
E41	<u>Cymatopleura solea</u> W. Sm.	Falaise, France	Lenormand
E42	<u>Cymatopleura solea</u> W. Sm.	Falaise, France	Lenormand
E43	<u>Cymbella affinis</u> Kütz.	Falaise, France	Brébisson
E44	<u>Cymbella delicatula</u> Kütz.	Falaise, France	Lenormand
E45	<u>Cymbella gastroides</u> Kütz.	Falaise, France	Brébisson
E46	<u>Cymbella maculata</u> Kütz.	Falaise, France	Lenormand
E47	<u>Cymbella gracilis</u> Kütz.	Bristol, England	G. Dickie
E49	<u>Cymbella leptocera</u> Kütz.	Falaise, France	Brébisson
E50	<u>Denticula sinuata</u> Thwaites	Bristol, England	G. Dickie
E51	<u>Denticula tenuis</u> Kütz.	Penzance, England	Brébisson
E52	<u>Denticula tenuis</u> Kütz.	Penzance, England	Lenormand
E53	<u>Diatoma hyalinum</u> Kütz.	Cherbourg, France	Brébisson
E54	<u>Diatoma ehrenbergii</u> Kütz.	Calvados, France	Brébisson
E55	<u>Diatoma elongatum</u> Kütz.	Falaise, France	Brébisson
E56	<u>Diatoma elongatum</u> Kütz.	Bristol, England	G. Dickie
E58	<u>Diatoma vulgare</u> Bory	Falaise, France	Brébisson
E68	<u>Dickieia ulvacea</u> Kütz.	Aberdeen, Scotland	Lenormand
E69	<u>Encyonema paradoxum</u> Kütz.	Falaise, France	Brébisson
E70	<u>Encyonema prostratum</u> Kütz.	Ilfracombe, England	Lenormand



E71	<u>Epithemia constricta</u> Bréb.	Calvados, France	Brébisson
E72	<u>Epithemia radula</u> Bréb.	Dives, France	Brébisson
E73	<u>Epithemia rupestris</u> W. Sm.	Falaise, France	Brébisson
E74	<u>Epithemia sorex</u> Kütz.	Oystreham (Calvados), France	Lenormand
E75	<u>Epithemia zebra</u> Kütz.	Falaise, France	Lenormand
E76	<u>Epithemia turgida</u> Kütz.	Falaise, France	Brébisson
E77	<u>Epithemia westermanni</u> Kütz.	Falaise, France	Lenormand
E78	<u>Epithemia gibba</u> Kütz.	Falaise, France	Lenormand
E79	<u>Epithemia alpestris</u> Kütz.	Falaise, France	Brébisson
E80	<u>Epithemia ocellata</u> Kütz.?	Aberdeen, Scotland	G. Dickie
E81	<u>Epithemia musculus</u> Kütz.	Dorsetshire, England	G. Dickie
E82	<u>Eunotia arcus</u> W. Sm.	Vosges, France	Lenormand
E83	<u>Eunotia tetraodon</u> Ehr.	Falaise, France	Brébisson
E84	<u>Eunotia serra</u> Ehr.	Vosges, France	Brébisson
E85	<u>Fragilaria capucina</u> Desm.	Caen, France	Lenormand
E87	<u>Fragilaria hyemalis</u> Ag.	Vire, France	Lenormand
E88	<u>Fragilaria virescens</u> Ralfs	Falaise, France	Lenormand
E90	<u>Fragilaria rhabdosoma</u> Ehr.	Bristol, England	G. Dickie
E94	<u>Fragilaria capucina</u> Desm.	Falaise, France	Lenormand
E96	<u>Gomphonema acuminatum</u> Kütz.	Falaise, France	Brébisson
E97	<u>Gomphonema angustatum</u> Ag.	Falaise, France	Lenormand
E98	<u>Gomphonema abbreviatum</u> [v.] <u>longipes</u> Kütz.	Port(Calvados), France	Lenormand
E99	<u>Gomphonema brebissonii</u> Kütz.	Falaise, France	Brébisson
E100	<u>Gomphonema abbreviatum</u> [v.] <u>longipes</u> Kütz.	Arromanches(Calvados), France	Lenormand
E101	<u>Gomphonema capitatum</u> Kütz.	Falaise, France	Brébisson
E102	<u>Gomphonema dichotomum</u> Kütz.	Falaise, France	Brébisson

E103	<u>Gomphonema constrictum</u> Kütz.	Falaise, France	Brébisson
E104	<u>Gomphonema exiguum</u> Kütz.	Cherbourg, France	A. LeJolis
E105	<u>Gomphonema fibula</u> Bréb.	Falaise, France	Lenormand
E106	<u>Gomphonema curvatum</u> v. <u>salinum</u> Kütz.	Falaise, France	Lenormand
E110	<u>Gomphonema olivaceum</u> Kütz.	Falaise, France	Brébisson
E113	<u>Gomphonema subramosum</u> Ag.	Falaise, France	Lenormand
E114	<u>Gomphonema ramosum</u> Kütz.	Falaise, France	Lenormand
E115	<u>Gomphonema curvatum</u> v. <u>marinum</u> Kütz.	Port (Calvados), France	Lenormand
E116	<u>Gomphonema micropus</u> Kütz.	Falaise, France	Brébisson
E117	<u>Grammatophora subtilissima</u> Bailey	Providence, Rhode Island	J.W. Bailey
E119	<u>Grammatophora serpentina</u> Kütz.	Calvados, France	Brébisson
E120	<u>Grammatophora marina</u> Kütz.	Calvados, France	Brébisson
E121	<u>Grammatophora marina</u> Kütz.	Granville, France	Lenormand
E123	<u>Himantidium denticulatum</u> Bréb.	Falaise, France	Brébisson
E124	<u>Himantidium gracile</u> Ehr.	Falaise, France	Brébisson
E125	<u>Himantidium exiguum</u> Bréb.	Falaise, France	Brébisson
E126	<u>Himantidium gracile</u> Kütz.	Vosges, France	Lenormand
E127	<u>Himantidium pectinale</u> Kütz.	Bristol, England	G. Dickie
E128	<u>Himantidium minus</u> Kütz.	Falaise, France	Brébisson
E130	<u>Fragilaria pectinalis</u> Ag.	Vire, France	Lenormand
E131	<u>Himantidium arcus</u> Ehr.	West Point, New York	J.W. Bailey
E132	<u>Himantidium soleirolii</u> Kütz.	Falaise, France	Brébisson
E133	<u>Isthmia enervis</u> Kütz.	Cherbourg, France	Brébisson
E134	<u>Isthmia nervosa</u> Kütz.	California	[J.L.?] Russell
E140	<u>Licmophora flabellata</u> Kütz.	Calvados, France	Brébisson
E141	<u>Licmophora flabellata</u> Ag.?	Iles Chausey, France	Lenormand



E145	<u>Mastogloia danseii</u> Thwaites	Devonport, England	G. Dickie
E146	<u>Melosira subflexilis</u> Kütz.	Aberdeen, Scotland	G. Dickie
E148	<u>Melosira varians</u> Ag.	Falaise, France	Brébisson
E149	<u>Melosira</u> [sp.]	Fort Hamilton, New York	J.W. Bailey
E150	<u>Melosira subflexilis</u> Kütz.	Falaise, France	Lenormand
E152	<u>Melosira</u> [sp.]	Beasley's Point, New Jersey	S. Ashmead
E154	<u>Melosira borrierii</u> Greville	Goes(Gélande), Netherlands	Lenormand
E157	<u>Melosira nummuloides</u> Kütz.	Arromanches, France	Brébisson
E161	<u>Meridion constrictum</u> var. ?	Falaise, France	Brébisson
E162	<u>Meridion circulare</u> (Grev.) Ag.	West Point, New York	J.W. Bailey
E163	<u>Meridion constrictum</u> Ralfs	Falaise, France	Brébisson
E164	<u>Meridion circulare</u> Kütz.	Falaise, France	Brébisson
E165	<u>Meridion circulare</u> (Grev.) Ag.	Bristol, England	G. Dickie
E166	<u>Meridion circulare</u> Ag.	West Point, New York	J.W. Bailey
E169	<u>Meridion circulare</u> Kütz.	Caen, France	Lenormand
E170	<u>Micromega bombycinum</u> Kütz.	Iles Chausey, France	Brébisson
E171	<u>Micromega polychados</u> Kütz.	Calvados, France	Brébisson
E172	<u>Micromega tetaceum</u> Kütz.	Calvados, France	Brébisson
E173	<u>Micromega tenellum</u> Kütz.	Calvados, France	Brébisson
E176	<u>Navicula cryptocephala</u> Kütz.	Falaise, France	Brébisson
E178	<u>Navicula ambigua</u> W. Sm	Falaise, France	Brébisson
E179	<u>Navicula amphisbaena</u> Bory	Falaise, France	Brébisson
E180	<u>Navicula cuspidata</u> Kütz.	Falaise, France	Brébisson
E181	<u>Navicula amphioxys</u> Kütz.	Falaise, France	Brébisson
E182	<u>Navicula cuspidata</u> Kütz.	Falaise, France	Lenormand

E183	<u>Navicula appendiculata</u> Kütz.	Falaise, France	Lenormand
E184	<u>Navicula acuminata</u> Kütz.	Falaise, France	Lenormand
E185	<u>Navicula crassinervia</u> Bréb.	Falaise, France	Brébisson
E186	<u>Navicula dicephala</u> var. <u>laevis</u> Kütz.	Falaise, France	Brébisson
E187	<u>Navicula tumida</u> Bréb.	Dives, France	Brébisson
E188	<u>Navicula lanceolata</u> Kütz.	Falaise, France	Lenormand
E189	<u>Navicula pussilla</u> Bréb.	Falaise, France	Lenormand
E190	<u>Navicula elliptica</u> Kütz.	Falaise, France	Brébisson
E191	<u>Navicula rhomboidea</u> Ehr.	Falaise, France	Lenormand
E192	<u>Navicula hortuiscula</u> Kütz.	Falaise, France	Brébisson
E193	<u>Navicula seriana</u> Bréb.	Falaise, France	Lenormand
E194	<u>Navicula sphaerophora</u> Kütz.	Falaise, France	Brébisson
E195	<u>Navicula turpinii</u> Bréb.	Falaise, France	Brébisson
E196	<u>Navicula tumida</u> Bréb.	Courseulles, France	Lenormand
E197	<u>Navicula veneta</u> Kütz.	Falaise, France	Brébisson
E198	<u>Nitzschia angularis</u> W. Sm.	Courseulles, France	Brébisson
E199	<u>Nitzschia acicularis</u> W. Sm.	Falaise, France	Brébisson
E200	<u>Nitzschia amphioxys</u> W. Sm.	Falaise, France	Brébisson
E201	<u>Nitzschia birostrata</u> W. Sm.	Courseulles, France	Brébisson
E202	<u>Nitzschia brebissonii</u> W. Sm.	Falaise, France	Brébisson
E203	<u>Nitzschia brebissonii</u> W. Sm.	Falaise, France	Lenormand
E204	<u>Nitzschia linearis</u> W. Sm.	Falaise, France	Brébisson
E205	<u>Nitzschia minutissima</u> W. Sm.	Falaise, France	Lenormand
E206	<u>Nitzschia taenia</u> W. Sm.	Falaise, France	Brébisson
E207	<u>Nitzschia sigma</u> W. Sm.	Courseulles, France	Brébisson
E208	<u>Nitzschia sigmoidea</u> W. Sm.	Falaise, France	Brébisson
E209	<u>Odontidium hyemale</u> Kütz.	Bristol, England	G. Dickie
E211	<u>Odontidium hyemale</u> Kütz.	Falaise, France	Lenormand



E212	<u>Odontidium mesodon</u> Kütz.	Vosges, France	Lenormand
E213	<u>Orthosira arenaria</u> W. Sm.	Falaise, France	Brébisson
E214	<u>Orthosira dickei</u> Thwaites	Aberdeen, Scotland	G. Dickie
E215	<u>Orthosira orichalcea</u> W. Sm.	Falaise, France	Brébisson
E216	<u>Orthosira orichalcea</u> W. Sm.	Bristol, England	G. Dickie
E217	<u>Orthosira orichalcea</u> W. Sm.	Aberdeen, Scotland	G. Dickie
E218	<u>Pinnularia gracilis</u> Ehr.	Falaise, France	Lenormand
E219	<u>Pinnularia oblonga</u> W. Sm.	Falaise, France	Brébisson
E220	<u>Pinnularia gibba</u> Ehr.	Falaise, France	Brébisson
E221	<u>Pinnularia stauroneiformis</u> W. Sm.	Falaise, France	Brébisson
E222	<u>Pinnularia lata</u> W. Sm.	Falaise, France	Brébisson
E223	<u>Pinnularia viridula</u> Ehr.	Falaise, France	Brébisson
E224	<u>Pinnularia major</u> W. Sm.	Falaise, France	Lenormand
E225	<u>Pinnularia suecica</u> Ehr.	Falaise, France	Lenormand
E226	<u>Pinnularia acrosphaeria</u> W. Sm.	Falaise, France	Lenormand
E227	<u>Pinnularia mesolepta</u> Ehr.	Falaise, France	Lenormand
E228	<u>Pinnularia viridis</u> W. Sm.	Falaise, France	Lenormand
E230	<u>Pleurosigma angustatum</u> W. Sm.	Dives, France	Lenormand
E231	<u>Pleurosigma attenuatum</u> W. Sm.	Falaise, France	Lenormand
E232	<u>Pleurosigma elongatum</u> W. Sm.	Bernierestart (Ines), [?]	Brébisson
E233	<u>Pleurosigma attenuatum</u> W. Sm.	Falaise, France	Brébisson
E234	<u>Pleurosigma fasciola</u> W. Sm.	Dives, France	Brébisson
E235	<u>Pleurosigma lamprocampum</u> Bréb.	Falaise, France	Brébisson
E236	<u>Pleurosigma aestuarii</u> W. Sm.	St. Vaarst, [France?]	Brébisson
E237	<u>Pleurosigma lacustra</u> W. Sm.	Falaise, France	Brébisson
E238	<u>Pleurosigma rigidum</u> W. Sm.	Calvados, France	Brébisson
E239	<u>Podosphaenia lyngbyei</u> Kütz.	Calvados, France	Lenormand
E240	<u>Podosphaenia gracilis</u> Kütz.	Calvados, France	Brébisson

E241	<u>Podosphaenia lyngbyei</u> Kütz.	Lue(Calvados), France	Lenormand
E242	<u>Rhabdonema arcuatum</u> Kütz.	Calvados, France	Brébisson
E243	<u>Rhabdonema minutum</u> Kütz.	Cherbourg, France	Brébisson
E244	<u>Rhabdonema minutum</u> Kütz.	Vire, France	Lenormand
E245	<u>Rhabdonema arcuatum</u> Kütz.	Calvados, France	Lenormand
E246	<u>Rhaphidogloia manipulata</u> Kütz.	Courseulles, France	Brébisson
E247	<u>Rhaphidogloea</u> ?	Bristol, England	G. Dickie
E248	<u>Rhaphidogloea</u> ?	Swansea, England	G. Dickie
E249	<u>Rhipidophora dalmatica</u> Kütz.	Courseulles, France	Brébisson
E250	<u>Rhipidophora anglica</u> Kütz.	Calvados, France	Brébisson
E251	<u>Rhipidophora oedipus</u> Kütz.	Calvados, France	Brébisson
E252	<u>Rhipidophora elongata</u> Kütz.	Calvados, France	Brébisson
E253	<u>Rhipidophora elongata</u> Kütz.	Arromanches(Calvados), France	Lenormand
E254	<u>Rhipidophora paradoxa</u> Kütz.	Arromanches(Calvados), France	Lenormand
E255	<u>Rhipidophora paradoxa</u> Kütz.	Calvados, France	Lenormand
E256	<u>Rhipidophora paradoxa</u> Kütz.	Dives, France	Brébisson
E258	<u>Schizonema apiculatum</u> Ehr.	Goes, Netherlands	Lenormand
E260	<u>Schizonema comoidea</u> Ag.	Cherbourg, France	Lenormand
E262	<u>Schizonema cruciger</u> W. Sm.	Dives, France	Brébisson
E264	<u>Schizonema dillwynii</u> Kütz.	Calvados, France	Brébisson
E265	<u>Schizonema ehrenbergii</u> Kütz.	Calvados, France	Brébisson
E269	<u>Schizonema floccosum</u> Kütz.	Aberdeen, Scotland	G. Dickie
E270	<u>Schizonema eximium</u> Thwaites	Bristol, England	G. Dickie
E271	<u>Schizonema grevillei</u> Kütz.	Morbihan, France	Brébisson
E273	<u>Schizonema grateloupii</u> Ag.	Iles Chausey, France	Lenormand
E276	<u>Schizonema hoffmannii</u> Ag.	Calvados, France	Brébisson
E277	<u>Schizonema helminthosum</u> Chaub.	Calvados, France	Lenormand



E278	<u>Schizonema</u> <u>helminthosum</u> Chaub. var. [?]	Calvados, France	Lenormand
E279	<u>Schizonema</u> <u>lubricum</u> Kütz.	Calvados, France	Brébisson
E283	<u>Schizonema</u> <u>neglectum</u> Thwaites var. <u>effusum</u>	Bristol, England	G. Dickie
E287	<u>Schizonema</u> <u>parasiticum</u> Griff.	Aberdeen, Scotland	Lenormand
E288	<u>Schizonema</u> <u>ramosissimum</u> Ag.	Brest, France	Lenormand
E290	<u>Schizonema</u> <u>rutilans</u> Ag.	Goes(Gélande), Netherlands	Lenormand
E291	<u>Schizonema</u> <u>rutilans</u> Ag.	Iles Chausey, France	Lenormand
E293	<u>Schizonema</u> <u>penillum</u> Kütz.	St. Vaast, [France?]	Lenormand
E294	<u>Schizonema</u> <u>subcohierens</u> Thwaites	Wareham, Dorsetshire, England	G. Dickie
E297	not <u>Schizonema</u> <u>comoides</u>	[No locality]	J. Hooper
E298	<u>Schizonema</u> <u>vulgare</u> Thwaites	Bristol, England	G. Dickie
E299	<u>Schizonema</u> [sp.]	St. Augustine, Florida	J.W. Bailey
E300	<u>Schizonema</u> [sp.]	Greenport, New York	J.W. Bailey
E301	<u>Schizonema</u> <u>viride</u> Kütz.	Calvados, France	Brébisson
E302	<u>Stauroneis</u> <u>dumontii</u> Bréb.	Alençon, France	Brébisson
E303	<u>Stauroneis</u> <u>aspera</u> Kütz.	Falaise, France	Lenormand
E304	<u>Stauroneis</u> <u>lanceolata</u> Kütz.	Falaise, France	Brébisson
E305	<u>Stauroneis</u> <u>amphicephala</u> Kütz.	Falaise, France	Brébisson
E306	<u>Stauroneis</u> <u>phoenicenteron</u> Kütz.	Falaise, France	Brébisson
E307	<u>Stauroneis</u> <u>phoenicenteron</u> Kütz.	Falaise, France	Lenormand
E309	<u>Striatella</u> <u>unipunctata</u> Ag.	Cherbourg, France	Brébisson
E311	<u>Striatella</u> <u>unipunctata</u> Ag.	[No locality]	H. [De?] Bary
E312	<u>Surirella</u> <u>angusta</u> Kütz.	Falaise, France	Brébisson
E313	<u>Surirella</u> <u>pinnata</u> W. Sm.	Falaise, France	Brébisson
E314	<u>Surirella</u> <u>crumena</u> Bréb.	Falaise, France	Brébisson
E315	<u>Surirella</u> <u>biseriata</u> f. <u>biceps</u> Bréb.	Falaise, France	Brébisson

E316	<u>Surirella</u> <u>minuta</u> Bréb.	Falaise, France	Brébisson
E317	<u>Surirella</u> <u>ovalis</u> Bréb.	Falaise, France	Lenormand
E318	<u>Surirella</u> <u>gemma</u> Kütz.	Courseulles, France	Brébisson
E319	<u>Surirella</u> <u>ovata</u> Kütz.	Falaise, France	Brébisson
E320	<u>Surirella</u> <u>striatula</u> Turp.	Courseulles, France	Brébisson
E321	<u>Surirella</u> <u>striatula</u> Turp.	Falaise, France	Lenormand
E322	<u>Surirella</u> <u>cuneata</u> Bréb.	Falaise, France	Lenormand
E323	<u>Surirella</u> <u>splendida</u> Kütz.	Falaise, France	Brébisson
E324	<u>Surirella</u> <u>splendida</u> f. <u>minor</u> Ehr.	Falaise, France	Brébisson
E325	<u>Surirella</u> <u>thermalis</u> Kütz.	Falaise, France	Lenormand
E326	<u>Synedra</u> <u>affinis</u> Kütz.	Granville, France	Brébisson
E327	<u>Synedra</u> <u>crystallina</u> Kütz.	Lue(Calvados), France	Lenormand
E328	<u>Synedra</u> <u>crystallina</u> Kütz.	[No locality]	H. [De?] Bary
E329	<u>Synedra</u> <u>amphirhyncus</u> Ehr.	Vire, France	Lenormand
E330	<u>Synedra</u> <u>fulgens</u> W. Sm.	Cherbourg, France	Brébisson
E331	<u>Synedra</u> <u>biceps</u> Ag.	Falaise, France	Brébisson
E332	<u>Synedra</u> <u>fasciculata</u> Kütz.	Arromanches (Calvados), France	Lenormand
E333	<u>Synedra</u> <u>barbatula</u> Kütz.	Arromanches (Calvados), France	Lenormand
E334	<u>Synedra</u> <u>gracilis</u> Kütz.	Goes, Netherlands	Lenormand
E335	<u>Synedra</u> <u>gallionii</u> Ehr.	Calvados, France	Lenormand
E336	<u>Synedra</u> <u>lunaris</u> Ehr.	Falaise, France	Brébisson
E337	<u>Synedra</u> <u>pulchella</u> Kütz.	Penzance, England	Lenormand
E338	<u>Synedra</u> <u>pulchella</u> Kütz.	Mortain, France	Brébisson
E339	<u>Synedra</u> <u>parva</u> Kütz.	Arromanches (Calvados), France	Lenormand
E340	<u>Synedra</u> <u>minutissima</u> var. <u>pelliculosa</u> Kütz.	Falaise, France	Lenormand



E341	<u>Synedra minutissima</u> var. <u>pelliculosa</u> Kütz.	Falaise, France	Lenormand
E343	<u>Synedra splendens</u> Kütz.	Falaise, France	Brébisson
E344	<u>Synedra subtilis</u> Kütz.	Falaise, France	Lenormand
E345	<u>Synedra tabulata</u> Kütz.	Cherbourg, France	Lenormand
E346	<u>Synedra semispina</u> Kütz.	Falaise, France	Lenormand
E350	<u>Synedra ulna</u> Ehr.	Vire, France	Lenormand
E351	<u>Synedra vitrea</u> Bory	Falaise, France	Brébisson
E352	<u>Synedra ulna</u> Kütz.	Falaise, France	Brébisson
E353	<u>Synedra vitrea</u> ? Bory	West Point, New York	J.W. Bailey
E354	<u>Synedra vaucheriae</u> Kütz.	[No locality]	Brébisson
E355	<u>Synedra vaucheriae</u> Kütz.	Falaise, France	Lenormand
E356	<u>Synedra parvula</u> Kütz.	Falaise, France	Lenormand
E357	<u>Synedra capitata</u> Ehr.	Falaise, France	Brébisson
E358	<u>Tabellaria fenestrata</u> Kütz.	Falaise, France	Brébisson
E360	<u>Tabellaria flocculosa</u> Kütz.	Vire, France	Lenormand
E362	<u>Tabellaria flocculosa</u> Kütz.	Falaise, France	Brébisson
E363	<u>Tabellaria ventricosa</u> Kütz.	Vosges, France	Lenormand
E364	<u>Tetracyclus lacustris</u> Ralfs	Dolgelly, Wales	J. Ralfs
E366	<u>Tetracyclus lacustris</u> Ralfs	Penzance, England	Lenormand
E367*	<u>Schizonema helminthosum</u> Chaub.	Lue(Calvados), France	Lenormand
E368*	<u>Gomphonema brebissonii</u> Kütz.	Vosges, France	Lenormand
E369*	<u>Gomphonema geminatum</u> (Lyngb.) Ag.	Penzance, England	Lenormand
E370*	<u>Navicula acuminatum</u> Kütz.	Falaise, France	Lenormand
E371*	<u>Berkeleya fragilis</u> Grev.	Cherbourg, France	Lenormand
E372*	<u>Colletonema viridulum</u> Bréb.	Falaise, France	Lenormand
E373*	<u>Schizonema grevillei</u> Hart.	Arromanches (Calvados), France	Lenormand

E374*	<u>Meridion</u> <u>circulare</u> Ag.	Falaise, France	Lenormand
E375*	<u>Eumeridion</u> <u>constrictum</u> Kütz.	Falaise, France	Lenormand
E376*	<u>Schizonema</u> <u>viridis</u> Kütz.	Arromanches (Calvados), France	Lenormand
E377*	<u>Rhipidophora</u> <u>elongata</u> Kütz.	Venice, Italy	Lenormand
E378*	<u>Tabellaria</u> <u>flocculosa</u> Kütz.	Falaise, France	Lenormand
E379*	<u>Tabellaria</u> <u>fenestrata</u> Kütz.	Falaise, France	Brébisson
E380*	<u>Tetracyclus</u> <u>lacustris</u> Ralfs	Penzance, England	Lenormand
E381*	<u>Grammatophora</u> <u>marina</u> Kütz.	Arromanches, France	Lenormand
E382*	<u>Gomphonema</u> <u>acuminatum</u> Ehr.	Falaise, France	Lenormand
E383*	<u>Striatella</u> <u>unipunctata</u> Ag.	Noirmoutier, France	Lenormand
E384*	<u>Isthmia</u> <u>enervis</u> Ehr.	Cherbourg, France	Lenormand
E385*	<u>Gomphonema</u> <u>olivaceum</u> Kütz.	Falaise, France	Lenormand
E386*	<u>Gomphonema</u> <u>constrictum</u> Kütz.	Falaise, France	Lenormand

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\* Exsiccati to be found in folder labelled "Mixed Diatoms"



REGISTER OF  
COLLECTION OF UNMOUNTED MATERIALS

The description following each serial number  
in this collection was taken from the 1860  
Catalogue of the Unmounted Materials [of the]  
Bailey Collection in the Boston Society of  
Natural History. Asterisked numbers indicate  
samples for which extant materials in the  
Farlow Herbarium.

- U21\* Pebbles from Patrick's landings
- U73\* Earth ex embankments in Cheever's rice fields, Ogeechee River, Chatham County, Georgia
- U131\* Marine fossils; Santa Fiore, [Italy]; Exposition Universelle, 1855
- U133\* Mud Lake, Oakland County, Michigan
- U134\* Orthoseira Dickesii [= Orthosira Dickiei ?]; Aberdeen, Scotland, December, 1848; S.R.; new diatom genus
- U136\* Irregular hairs on the flowers of Anigozanthos flavida; viewed as opaque objects
- U138\* Specimen of bottom of York Roads, Straits of Magellan, Chile
- U144\* Fucus jacobonnus; Japan; Arachnoidiscus japonensis attached; quite interesting
- U145\* Infusoria flannel described by Ehrenberg, Berlin, Germany
- U148\* Fossil animalcules from Prof. Retsius
- U150\* Fossil infusoria, Germany
- U151\* Sporangia; Penzance, England; John Ralfs, 1847
- U155\* Seeds of [acanthus spic ?]; deserts of East Indies; very scarce
- U157\* Hair moss; Granville County, North Carolina
- U159\* Fossil earth; Bristol Mine Cliff near Fredericksburg, Virginia
- U160\* Mud, etc. ex large drainage canal swamp; New Orleans, Louisiana; J.L. Riddell, June 1851
- U161\* Rock with minute shells; near Dubuque, Iowa; see Prof. Hill's letter, 1855
- U164\* Littleton, New Hampshire
- U166\* Deep soundings in harbor of Hikodadi Island, [Lusn ?]
- U168\* Zoophites near Saint Augustine, Florida
- U170\* Piper nigrum; longitudinal and transverse sections
- U172\* Infusoria; Connecticut
- U178\* Orchis seeds - showing fib[er] cell structure; 2) Cretaceous stratum, Rio del Norte, A. Sclenett; 3) [Doliches eniniri "Courage"]; 4) Wendell, Massachusetts; 5) Hoboken, New Jersey, A. M. Edwards; 6) Soil ex Barra [?]; 7) Soil [Cabalescocoa?]; 8) Seeds Ruellia stretum

- U180\* No. 3, Snoqualmie Pass, 3543 feet above Vancouver, Washington, September 8; 2) Mud ex Philippine Islands; 3) Puget Sound, Washington; 4) Croton [argy saushemun-necks ?]; 5) Calc. [?], Key West, Florida; 6) Soil from pond, Berlin, Germany
- U185\* Shockoe Hill, Richmond, Virginia; from W.B. Rogers
- U195\* Soundings; Fort Sumter, Charleston Harbor, South Carolina
- U197\* Near Rio del Norte
- U203\* Wrentham, Massachusetts
- U206 Tampa, Florida
- U207 Mud from surface of whale's head; Okhotsk Sea
- U208\* Fossil infusoria; Oregon; J.D. Dana
- U209 Fossil diatoms (infusoria); Spencer, Massachusetts; Prof. Hitchcock's collection
- U211\* Straits of Malacca
- U212\* Mud from ocean; 715 fathoms; Dr. Gray
- U213\* Guano; Dr. Torrey
- U214\* Fossil infusoria; Westmoreland, Virginia; W.B. Rogers
- U215 Grammatophora; Greenport, New York
- U216\* Fossil infusoria; Stratford Cliffs, Potomac River, Virginia; W.B. Rogers
- U217\* Fossil infusoria; Piscataqua, Maryland
- U219\* Coast of Scindah, Bengal near Kurache, [India]
- U220\* Andover, Massachusetts
- U221 Blue Hill Pond, Maine; no. 2
- U223\* Sand from Bermuda [See note on page 154.]
- U225 Fossil diatoms; Maidstone, Vermont; no. 40, State Report
- U226\* Fossil infusoria with fossil wood, 100 feet below surface near Capt. John Becket's, Calvert County, Maryland
- U227\* Fossil diatoms from peat bog near Concord, New Hampshire
- U228 Fossil diatoms; Oregon; no. 61; Fremont's Report
- U229\* Mud of ocean; 1300 fathoms; Dr. Gray

- U231 Fossil diatoms under a peat bog, Aberdeenshire, Scotland
- U232 Fossil diatoms; Oregon; no. 59; Fremont's Report
- U233\* Recent polythalamia, etc.; Isle of Delos; C. Stokes
- U235\* Limestone with polythalamia; Mount of Olives, [North Carolina ?]
- U236\* Recent polythalamia, Manila, Philippines
- U241\* Lower end of St. Mary's County, Maryland
- U244\* Williamsburg, Virginia
- U246\* Suisun Bay, 25-30 miles above San Francisco, California
- U247\* Meherrin River, Virginia; fossil diatoms
- U248 Concord, Massachusetts; Prof. Hitchcock's collection
- U249 Nova Scotia; Dr. Leidy
- U253 Blue Hill Pond, Maine
- U254 Duval's Creek, Enterprise, Florida; cleaned with KO and ignited
- U255 Lower end of St. Mary's County, Virginia
- U268 Diatoms, Recent infusoria; River Humber and adjacent salt water ditches, England
- U273 Fossil diatoms; Piscataqua, Maryland

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\* Unmounted samples in vials are in the collection in addition to slides



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Greville, Robert Kaye/1010-1020, 1023-  
1034

Hammond, William A./1433

Harvey, William Henry/2098



Hendey, N. Ingrahm/578	Owen, Richard/1365
Hersford, E. W./991	Parry, William Edward/946
Hills, Prof. [?]/U161	Perry, Matthew Calbraith/1588-1595
Hitchcock, Edward/U209, U248	Quekett, Edwin John/1277, 1278, 1286, 1297, 1298, 1335-1338, 1438, 1778, 2069
Hooper, John/E297	
Johnson, Alexander S./1071-1073 1075-1080, 1172, 1594, 2047	Ralfs, John/E364, U151
Le Jolis, Auguste François/E104	Retzius, Anders Adolf/U148
Leidy, Joseph/2074, U249	Riddell, John Leonard/U160
Lenormand, Sébastien René/ E1, E3, E4, E6-E8, E10, E21, E25, E26, E29, E31, E32, E34, E37, E41, E42, E44, E46, E52, E68, E70, E74, E75, E77, E78, E82, E85, E87, E88, E94, E97, E98, E100, E105, E106, E113-E115, E121, E126, E130, E141, E150, E154, E169, E182-E184, E188, E189, E191, E193, E196, E203, E205, E211, E212, E218, E224-E228, E230, E231, E239, E241, E244, E245, E253-E255, E258, E260, E273, E277, E278, E287, E288, E290, E291, E293, E303, E307, E317, E321, E322, E325, E327, E329, E332-E335, E337, E339- E341, E344-E346, E350, E355, E356, E360, E363, E366-E378, E380-E386	Rogers, William Barton/U185, U214, U216
	Russell, John Lewis/E134
	Samuels, Emanuel Augustus/1352
	Sands, Benjamin Franklin/619
	Schiel, James/846
	Sclenett, A./U178
	Shaw, D.B.S./2027
	Smith, Rev. William/1020
	Stodder, Charles/586, 612, 814, 1072, 1078, 1469, 1757, 2178, 2182, 2184
	Stokes, C./U233
Mantell, Gideon Algernon/1318, 1395, 1412, 1760	Strong, George B./1423
Marshall, Matthew/1287, 1339, 1777	Sutherland, Dr. [?]/2161
Mason, Owen/2075	Torrey, John/803, 829, 1363, 1970, U213
McAllister, Col. [?]/1925	VanArsdale, Dr. [?]/1081-1088, 1179, 1787
McClellan, George Brinton/847- 853	Wells, Samuel/1432
Newberry, John Strong/1515-1526	Widdefield, [?]/1434
Nicolett, Joseph Nicolas/1109	Williamson, Robert Stockton/838-843, 845

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Note: The diatomaceous deposit, so often called 'Bermuda' or 'Bermuda tripoli,' especially by foreign writers, is in reality the Miocene stratum extending for miles along the Patuxent River near the village of Nottingham, Md. The author is perfectly familiar with the location, having made large collections there. The mistake in the name is due to the fact that Prof. Bailey received material from Mr. Tuomey marked 'Bermuda Hundred', which is located near Petersburg, Va. Attempts have been made to find material there and while there is an earth containing Miocene diatoms at Petersburg, it does not exactly correspond to the material sent to Ehrenberg by Bailey, who was in doubt as to the locality. The Bermuda Islands are of coral formation and have no deposits of diatomaceous earth.

.....Boyer, 1916, p. 18

I have not determined how many of the samples in this Collection should be subject to Boyer's concern over the location of "Bermuda." I have presented Boyer's note solely to present the "Bermuda problem;" I cannot attest to the correctness of Boyer's conclusions. A further examination of the problem should include at least Bailey (1845), Stodder (1874), Johnston (1874), Sullivant (1875), and Boyer (1900, p. 690, footnote 4; 1916, p. 18).

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